DIGITAL TRANSISTOR

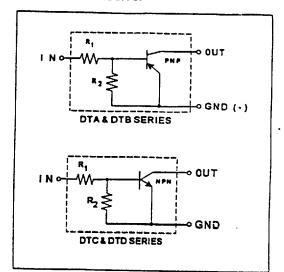
APPLICATION:

Inverter, Driver & Interface Circuits

FEATURES:

- Replaces up to three parts (1 transistor & 2 resistors) with one part
- Available in a variety of surface mount or leaded (thru-hole) packages
- · High packing density requires less board space
- Cost savings due to fewer components to purchase & stock & handle
- Improved reliability due to reduced number of components
- Available in PNP & NPN polarities
- Available in 100 mA & 500 mA devices
- Decreased parasitic effects
- Double diffused silicon, Epitaxial Planar Transistor with thin film internal bias resistors

EQUIVALENT CIRCUITS:



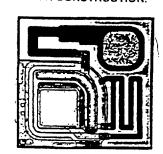
MAXIMUM RATINGS:

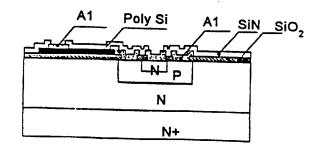
PARAMETER	PN	P	N	PN	
	DTA	DTB	DTC	DTD	UNITS
Power Supply Voltage (V _{cc})	50	50	50	50	Volts
Collector Current (I _c)	100	500	100	500	mA
Junction Temperature (Tj)	÷125	+125	+125	+125	*c
Storage Temperature (Tstg)	-55 to +125	-55 to +125	-55 to +125	-55 to +125	•0
Power Dissipation (Pd)	Rated by	Package See		1 00 10 1125	mW

MAXIMUM POWER DISSIPATION BY PACKAGE: Pd (mW)

	SUR	FACE MO	UNT DEV	ICES	THRU	-HOLE (L	.EADED) DI	EVICES	
Test Condition	SST (SOT-23)	SMT (SC-59)	UMT	ЕМЗ	SPT (TO-92S)	ATR	ATV	FTR	FTL
Free Air/PCB Ceramic Substrate	200 350	200 350	200 350	150 250	300	300	300	300	300

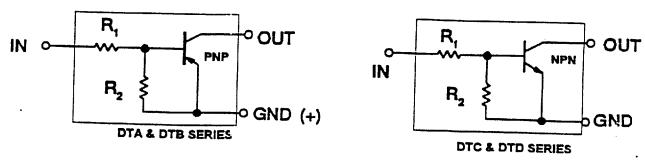
DIGITAL TRANSISTOR CONSTRUCTION:





ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022

Digital Transistor Summary Table



	Resistor Values	PNP 1.(Mex) = 100 n.A	PNP	NPN	NPN
R,	R,	2N3908	PN2907A/2N4403	l _c (Mex) = 100 mA 2N3904	I _c (Mex) = 500 mA PN2222A/2N4401
1/K 1/K 1/K	1K NONE 10K	DTA 113T	DTB 113E	-	DTD 113E
10K	10K		DTB 113Z	DTC 113Z	DTD 113Z
10K 10K 10K 10K	10K 10K NONE 4.7K 47K	DTA 114E DTA 114G DTA 114T DTA 114W DTA 114Y/DTA 214Y	DTB 114E DTB 114T	DTC 114E DTC 114G DTC 114T/DTC 314T • DTC 114W DTC 114Y	DTD 114E DTD 114G DTD 114T
100K 0 100K 100K	100K 100K NONE 10K	DTA 115E DTA 115G DTA 115T DTA 115U	- - -	DTC 115E DTC 115G DTC 115T DTC 115U	
.22K	10K DTA 1:	•	DTB 122J	-	DTD 122J
2.2K 2.2K 2.2K 2.2K	2.2K NONE 47K 10K	DTA 123E DTA 123J DTA 123Y	DTB 123E DTB 123T - DTB 123Y	DTC 123E DTC 323T * DTC 123J DTC 123Y	DTD 123E DTD 123T DTD 123Y
2.7K	1K	DTA 1D3R	•	DTC 1D3R	0.0 1251
22K 0 22K 22K	22K 22K NONE 47K	DTA 124E DTA 124G DTA 124T DTA 124X	- - -	DTC 124E DTC 124G DTC 124T DTC 124X	:
220K	NONE	DTA 125T	•	DTC 125T	-
3.3K	10K	•	DTB 133H	•	DTD 133H
4.7K 4.7K 4.7K 4.7K 4.7K	4.7K NONE 10K 22K 47K	DTA 143E DTA 143T DTA 143X DTA 143Y DTA 143Z	DTB 143E DTB 143T	DTC 143E DTC 143T/DTC 343T • DTC 143X DTC 143Y DTC 143Z	DTD 143E DTD 143T
47K 0 47K 47K 47K	47K 47K NONE 10K 22K	DTA 144E DTA 144G DTA 144T DTA 144V DTA 144W	- - - -	DTC 144E DTC 144G DTC 144T DTC 144V DTC 144W	
6.8K 6.8K	6.8K NONE	•	DTB 163T	DTC 363E • DTC 363T •	DTD 163T

 $^{^{*}}I_{c} = 600 \text{ mA}$

NOTE: See "How to Order" for complete part number

ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 EAY (615)641 2020

DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

	Vin(o	m)		Vin(o	n)		Vo	(on)			lb		lc(OF	F)		Voe(8	AT)		Cob (9 F=1	MHz		CUT-O	FF FR	EQ
PART	Max	Voe	k	Min	Voe	lc	TYP	Macc	lc	Nb.	Max	Vin	Mex	Voc	Vin	Max	kc	В	TYP	Max	Vcb	Je	п	Vce	ic
NUMBER	M	(2)	(mA)	8	(V)	(mA)	(%)	8	(mA)	(mA)	(mA)	M	(uA)	8	LM.	(4)	(mA)	(mA)	(pF)	(pF)	(5)	(mA)	(MHz)	8	(mA)
DTA113Z	0.3	5	0,1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114E	0.5	5	0,1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115E	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0.1	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123Y	0.3	5	0.1	3	0.3	20	0,1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA124E	0.5	5	0.1	3	0.2	5	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	25	3	6	10	0	250	10	5
DTA124X	G.4	5	0.1	2.5	0.3	2	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143E	G. 5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	1.8	. 5	10	- 30	. 0	0.3	5	0.25	3	6	· 10	0	250	10	5
DTA143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Y	ი.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Z	(5	5	0.1	1.3	0.3	5	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	_10	5
DTA144E	€.5	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.18	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144V	٥.′	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144W	C.B	5	0.1	4	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA214Y	C.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	_ 6	10	0	250	10	5
DTA1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5

	Vi∷(o	T)		Vin(o	n)		Vo	(on)			lb		lc(OF	F)		Voe(S	AT)		Cob	@ F=1	MHz		CUT-O	FF FR	EQ
PART	Max	Vce	k	Min	Vœ	kc	TYP	Max	lc	Ŧ	Max	Vin	Max	Voc	Vin	Manc	lc	В	TYP	Max	Vcb	le	πl	Vce	lc
NUMBER	(0)	(V)	(mA)	8	8	(uA)	8	(5)	(mA)	(mA)	(mA)	100	(uA)	8	(2)	(0)	(mA)	(mA)	(pF)	(pF)	8	(mA)	(MHz)		(mA)
DTA143T	0.3	5	0.1	3	0.	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	1	3	6	10	0	250	10	5
DTA124T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30		0.3	5	0.5	3	6	10	0	250	10	5
DTA144T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.5	3	- 6	10	0	250	10	5
DTA115T	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	1	0.1	3	6	10	0	250	10	5
DTA125T	0.8	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.33	5	10	30	0	0.3	0.5	0.05	3	6	10	0	250	10	5
DTA113T	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.2	3	6	10	0	250	10	5

• •	Vin(of	1)		Vin(o	n)		Vo	on)			њ		lc(OF	F)		Vce(S	AT)		Cob (⊋ F=1	MHz		CUT-O	FF FR	EQ
PART	Max	Vce	kc	Min	Voe	k	TYP	Max	k	Ib	Mex	Vin	Mesc	Voc	Vin	Max	k	ъ	TYP	Max	Vcb	le	rr l	Vce	lc
NUMBER	(3)	<>>	(mA)	(8)	(2)	(uA)	(3)	(4)	(mA)	(mA)	(mA)	8	(uA)	(%)	(2)	i (v)	(mA)	(mA)	(pF)	(pF)	M	(mA)	(MHz)		(mA)
DTA114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	Ó	0.3	10	0.5	3	6	10	Ô	250	10	5
DTA124G	0.5	. 5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	0.5	3	6	10	,	250	10	
DTA144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	10	0.5		-	10	-	250	10	
DTA115G	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	-	0.3		0.25	3	-		-			-3
DTB114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2		10	30		0.3	50	2.5	1 3		10	0	250	10	<u> </u>

ELECTRICAL CHARACTERISTICS: 500 mA Series

	Vin(o	ff)		Vin(or	1)		You	(on)			lb		lc(OF	F)		Voe(S	MT		Cob (ര F=	MHz		CUT-O	EE ED	ĒΩ
PART	Max	Vœ	lc	Min	Voe	lc	TYP	Max	kc	lb	Max	Vin	Max	Voc	Vin	Max	lc	ь	TYP	Max		La	FT	Vœ	·
NUMBER	(8)	8	(mA)	3	(V)	(uA)	(V)	(V)	(mA)	(mA)	(mA)	(V)	(uA)	(%)	(2)	(0)	(mA)			(pF)	8	(mA)	(MHz)		(mA
DTB113E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	25	7.2	5	10	30	Ö	0.3		0.25	3	6	10	0	200	10	50
DT8113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB114E	0.5	5	0.1	3	0.3	10	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	- 6	10	0	200	10	50
OTB123E	0.5	5	0,1	3	0.3	20	0.1	0.3	50	2.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB143E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	0	0.3	5	0.25	3	-	10	0	200	10	50
DTB123Y	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	3.6	5	10	30	0	0.3		0.25	3	6	10	0	200	10	50
DTB122J	0.3	5	0.1	2	0.3	30	0.1	0.3	50	2.5	4.5	5	10	30	0	0.3		0.25	3	6	10	0	200	10	50
DTB133H	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	24	5	10	30	0	0.3		0.25	1	-	10	0	200	10	50

Vin(of	ŋ		Vin(or	٦)		Vo	(on)			lb		lc(OF	F)		Voets	AT		Coh	æ E 1	4414-		0155		===
Max	Vœ	k	Min	Voe	lc	TYP	Max	kc	lb	Max	Vin	-f ` i		Vin	• `	<u> </u>	l III			_	-	1001-0		EQ
_⊘	(4)	(mA)	8	€	(UA)	~	8	(mA)	(mA)				~		1	,						11		k
0.3	5	0.1	3	0.3	كيستند	0.1	0.3		0.5	7.2	14	17-7	- 		1.4	1.14	4.1.5	(pr)	(pF)	(5)	(mA)	, , , , , , , , ,	(4)	(mA)
0.5	5	0.1	3						0.5	0.00		_						3	6	10	٥	200	10	5
0.8	5		- 3			<u> </u>		10		+	1 3	-		-				3	6	10	0	200	10	5
	-		-			Ų. į		3	and the same		,	10	30	9	0.3	5	0.25	3	_ 6	10	0	200	10	5
0.3		0.1	1.4	0.3	1	0.1	0.3	5	0.25	Ô.88	5	10	50	0	0.3	5	0.25	3	6	10	0	200	10	
	Max (V) 0.3 0.5 0.8	(V) (V) 0.3 5 0.5 5 0.8 5	Max Vce lc (Y) (Y) (mA) 0.3 5 0.1 0.5 5 0.1 0.8 5 0.1	Max Vce kc Min (V) (V) (mA) (V) (0.3 5 0.1 3 0.5 5 0.1 3 0.8 5 0.1 3	Max Vce lc Min Vce (Y) (Y) (mA) (Y) (Y) 0.3 5 0.1 3 0.3 0.5 5 0.1 3 0.3 0.8 5 0.1 3 0.3	Max Vce lc Min Vce lc (Y) (Y) (mA) (Y) (Y) (uA) 0.3 5 0.1 3 0.3 20 0.5 5 0.1 3 0.3 10 0.8 5 0.1 3 0.3 2	Max Vce lc Min Vce lc TYP (Y) (Y) (M) (Y) (Y) (UA) (Y) 0.3 5 0.1 3 0.3 20 0.1 0.5 5 0.1 3 0.3 10 0.1 0.8 5 0.1 3 0.3 2 0.1	Max Vce lc Min Vce lc TYP Max (Y) (Y) (Y) (Y) (UA) (Y) (Y)	Max Vce lc Min Vce lc TYP Max lc (Y) (Y) (Y) (Y) (UA) (Y) (Y) (Y) (mA) 0.3 5 0.1 3 0.3 20 0.1 0.3 10 0.5 5 0.1 3 0.3 10 0.1 0.3 10 0.8 5 0.1 3 0.3 2 0.1 0.3 5	Max Vce lc Min Vce lc TYP Max lc lb (Y) (Y) (Y) (UA) (Y) (Y) (mA) (mA) 0.3 5 0.1 3 0.3 20 0.1 0.3 10 0.5 0.5 5 0.1 3 0.3 10 0.1 0.3 10 0.5 0.8 5 0.1 3 0.3 2 0.1 0.3 5 0.25	Max Vce lc Min Vce lc TYP Max lc lb Max (Y) (Y) (Y) (UA) (Y) (Y) (MA) (MA)	Max Vce lc Min Vce lc TYP Max lc lb Max Vin (Y) (Y) (Y) (uA) (Y) (Y) (mA) (mA) (mA) (Y) 0.3 5 0.1 3 0.3 20 0.1 0.3 10 0.5 7.2 5 0.5 5 0.1 3 0.3 10 0.1 0.3 10 0.5 0.88 5 0.8 5 0.1 3 0.3 2 0.1 0.3 5 0.25 1.8 5	Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max (Y) (Y) (Y) (UA) (Y) (Y) (mA) (mA) (Y) (UA) 0.3 5 0.1 3 0.3 20 0.1 0.3 10 0.5 7.2 5 10 0.5 5 0.1 3 0.3 10 0.1 0.3 10 0.5 0.88 5 10 0.8 5 0.1 3 0.3 2 0.1 0.3 5 0.25 1.8 5 10	Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc (Y) (Y) (Y) (UA) (Y) (Y) (MA) (MA) (MA) (Y) (UA) (Y) 0.3 5 0.1 3 0.3 20 0.1 0.3 10 0.5 7.2 5 10 30 0.5 5 0.1 3 0.3 10 0.1 0.3 10 0.5 0.88 5 10 30 0.8 5 0.1 3 0.3 2 0.1 0.3 5 0.25 1.8 5 10 30	Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc Vin (Y) (Y) (Y) (Y) (Y) (MA) (MA) (MA) (Y) (Y)	Max Vces lc Min Vces lc TYP Max lc lb Max Vin Max Voo Voo Vin Max (Y) (Y) (Y) (Y) (Y) (Y) (Max) (Max) (Max) Vin Max Vin Vin Max Vin Max Vin Max Vin Vin </td <td>Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc Vin Max lc (Y) (Y)</td> <td>Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc Vin Max lc lb Max Vin Max Voc Vin Max Vin</td> <td>Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc Vin Max lc lb TYP (Y) (Y)</td> <td>Max Vce lc Min Vce lc TYP Max lc lb Max Vin Mex Voc Vin Mex lc lb TYP Max (Y) (Y)</td> <td> Max Vce Ic Min Vce Ic Vce Vc Vce V</td> <td> Max Vce Ic Min Voe Ic TyP Max Ic Ib Max Vin Max Vce Vin Max Vce Ic Ib TyP Max Vce Ic Ib Max Vin Max Vce Vin Max Vce Ic Ib TyP Max Vce Ie Ic Ic Ic Ic Ic Ic </td> <td> Max Vcs Ic Min Vcs Ic TYP Max Ic Ib Max Vin Max Vcs Vin Max Ic Ib TYP Max Vcb Is TYP Max Typ TYP TYP Max Typ Typ </td> <td>Max Vces lc Min Vces lc TYP Max Vin Max Vin</td>	Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc Vin Max lc (Y) (Y)	Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc Vin Max lc lb Max Vin Max Voc Vin Max Vin	Max Vce lc Min Vce lc TYP Max lc lb Max Vin Max Voc Vin Max lc lb TYP (Y) (Y)	Max Vce lc Min Vce lc TYP Max lc lb Max Vin Mex Voc Vin Mex lc lb TYP Max (Y) (Y)	Max Vce Ic Min Vce Ic Vce Vc Vce V	Max Vce Ic Min Voe Ic TyP Max Ic Ib Max Vin Max Vce Vin Max Vce Ic Ib TyP Max Vce Ic Ib Max Vin Max Vce Vin Max Vce Ic Ib TyP Max Vce Ie Ic Ic Ic Ic Ic Ic	Max Vcs Ic Min Vcs Ic TYP Max Ic Ib Max Vin Max Vcs Vin Max Ic Ib TYP Max Vcb Is TYP Max Typ TYP TYP Max Typ Typ	Max Vces lc Min Vces lc TYP Max Vin Max Vin

7828999 0014557 382 📟

DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

		RESISTO	RVALUE		R2/R	1	kc	INPU	TVOLT	hFE			lcbo		loso			T	
PART NUMBER	TYP	R1 (K)	R2 (K)	Min	Тур	Mex	Mex (mA)	Min (V)	Mex (V)	Min	V∞•	ic (mA)	Mex (uA)	S &	Max (uA)	{		DIE	EQUIVALENT CIRCUIT
DTA113Z	PNP	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5		E11/111		Cincell
DTA114E	PNP	10.0	10.0	0.8	1	1.2	100	-40	10	30	5	5	0.5	50	0.5	50	14		1
DTA114W	PNP	10.0	4.7	0.37	0.47	0.57	100	-30	10	24	5	10	0.5	50	0.5	50	74	-	
DTA114Y	PNP	10.0	47.0	3.7	4.7	5.7	100	40	6	68	5	5	0.5	50	0.5	50	54		
DTA115E *	PNP	100.0	100.0	0.8	1	1.2	100	49	10	82	5	5	0.5	50	0.5	50	19		
DTA115U	PNP	100.0	10.0	0.06	0.1	0.12	100	49	10	27	5	5	0.5	50	0.5	50	E79/179		i
DTA123E	PNP	2.2	2.2	0.8	1	1.2	100	-12	10	20	5	20	0.5	50	0.5	50		A733	
DTA123J	PNP	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E32/132	A774	
DTA123Y	PNP	2.2	10.0	3.5	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	53		A777	- M1
DTA124E	PNP	22.0	22.0	0.8	1	1.2	100	49	10	56	5	5	0.5	50	0.5	50		A761	(3)
DTA124X	PNP	22.0	- 47.0	1.7	2.1	2.6	100	-40	10	68	5	5	0.5	50	0.5	5υ	35	A770	R
DTA143E	PNP	4.7	4.7	0.8	1	1.2	100	-30	10	20	5	10	0.5	50	0.5	50		A768	90#
DTA143X	PNP	4.7	10.0	1.7	2.1	2.6	100	-20	7	30	5	10	0.5	50	0.5	50		A769	(المعين
DTA143Y	PNP	4.7	22.0	3.7	4.7	5.7	100	-30	6	58	5	5	0.5	50	0.5	52	53	A785	
DTA143Z	PNP	4.7	47.0	8	10	12	100	-30	- 5	80	5	10	0.5	50	0.5	50		A775	
DTA144E	PNP	47.0	47.0	0.8	_ 1	1.2	100	49	15	68	5	5	0.5	50	0.5	5:	16	A782	
DTA144V	PNP	~7.0	10.0	0.17	0.21	0.26	100			33	5	5	0.5	50	0.5	52		A774	
DTA144W	PNP	47.0	22.0	0.37	0.47	0.57	100	40	10	56	5	5	0.5	50	0.5	5C		A767	
DTA214Y	PNP	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50		A762	
DTA1D3R	PNP	2.7	1.0	0.33	0.37	0.41	100	-15	15	20	5	30	0.5	50	0.5	50		A784	

		RESISTO	RVALUE	Vcbo	Voec	Vebo	kc		hFE				kcbo		lebo	7			
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Тур	Max	Vœ	lc	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	8	_(^)	(2)	(mA)			<u> </u>	8	(mA)	(uA)	8	(uA)	n	MARK	TYPE	
DTA143T	PNP	4.7	NONE	50	50	5	100	100	250	600	- 3	1	0.5	50	0.5	-	93	A764	
DTA114T	PNP	19.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	-		A765	
DTA124T	PNP	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50					
DTA144T	PNP	47.0	NONE	50	50		100	100	250	600		:		_	0.5	4		A771	Date of the Column
						3	100	3	250	1000	3	1	0.5	50	0.5	4	96	A772	
DTA115T	PNP	100.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	99	B864	!
DTA125T	PNP	200.0	NONE	50	50	5	100	100	250	600	5	- 1	0.5	50		-31			
DTA113T	DNID												0.5	30	0.5	4	9A	B863	
DIAIISI	PNP	1.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	91	A786	

		RESISTO	R VALUE	Vcbo	Voso	Vebo	ic		hFE				lcbo		lebo	1			
PART	TYP	Rí	R2	Max	Max	Max	Max.	Min	Тур	Max	Vœ	lc	Mex	Vcb	Max	Veh	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	8	8	M	(mA)			1	8	(mA)	(UA)	S	(uA)	M	MARK	TYPE	CIRCUIT
DTA114G	PNP	0	10.0	50	50	5	100	30	-	•	5	5	0.5	50	580	1		A780	OIACOIT
DTA124G	PNP	0	22.0	50	50	5	100	56	•	-	5	5	0.5	50	260	-		A781	
DTA144G	PNP	0	47.0	50	50	5	100	68		•	5	5	0.5	50	130	1			
DTA115G	PNP	0	100.0	50	50	5	100	82	•		5	-	0.5	50				A782	PEZ .
DTB114G	PNP	0	10.0	50	50	- 5	500	56		<u> </u>	-	100		_	58			B862	
							~~	- 36				130	0.5	50	0.5	4 1	L14	B726	

ELECTRICAL CHARACTERISTICS: 500 mA Series

		RESISTO	RVALUE		R2/R	1	lc	INPU	TVOLT	hFE		-	lcbo		loso			T	
PART NUMBER	ТҮР	R1 (K)	R2 (K)	Min	Тур	Macx	Max (mA)	Min (V)	Max (V)	Min	Vœ (S)		Macx (uA)	Vab	Max	Vœ	PART MARK	DIE	EQUIVALENT
OTB113E	PNP	1.0	1.0	0.8	1	1.2	500	-10	10	33	5	50	0.5		0.5	50		B717	CIRCUIT
DTB113Z	PNP	1.0	10.0	8	10	12	500	-10	5	56	-	50	0.5						i .
OTB114E	PNP	10.0	10.0	0.8							<u> </u>			-	0.5	50	G11	B718	
				0.6	1	1.2	500	49	10	56	5	50	0.5	50	0.5	50	F14	B714	TUD
OTB123E	PNP	2.2	2.2	0.8	1	1.2	500	-12	10	39	5	50	0.5	50	0.5	50			(600)
OTB143E	PNP	4.7	4.7	0.8	1	1.2	500	-30	10	47	-		_					B712	l no
OTB123Y	PNP								10	4/	3	50	0.5	50	0.5	50	F13	8713	1 - 1
		2.2	10.0	3.6	4.5	5.5	500	-12	5	56	5	50	0.5	50	0.5	50	ESO	B715	Q40(+
OTB122J	PNP	0.22	4.7	17.1	21.3	25.6	500	-5	5	47	5	50							(farin
TB133H	PNP	3.3									-3	- 30	0.5	50	0.5	50	G3C	8725	f
71010011	, ,,,	3.3	10.0	2.4	3	3.7	500	-20	6	56	5	50	0.5	50	0.5	50	G98	B719	1

			RVALUE	Vcbo	Voeo	Vebo	\ lc		hFE				Icbo		lebo			7	T
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Тур	Map	Voe	lc	Max	Vcb		$\overline{}$	D		
NUMBER		(K)	(K)	(%)	(0)	m	(mA)		.,,,		M	(mA)	(uA)			1 1	PART MARK	DIE	EQUIVALENT
DTB123T	PNP	2.2	NONE	50	50	3	500	100	250	600	5	50	0.5	50	0.6	141		TYPE	CIRCUIT
DTB143T	PNP	4.7	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5			B723	
DTB163T	PNP	6.8	NONE	50	50	-	500			+					0.5	4	F03	B720	
DTB114T	PNP	10.0	NONE	_	_			100	250	600		50	0,5	50	0,5	4	E97	B721	
2.5.141	, ,,,,	10,0	HONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	E94	8722	

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DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

	Vin(o	1)		Vin(or	1)		Vol	on)			lb		lc(OF	1)		V00(8	CTAS		Cob (D F=1	MHz		CUT-0	FF FR	EQ
PART	Max	Vœ	5	Min	Voe	lc	TYP	Mex	kc	1b	Mex	Vin	Max	Voo	Vin	Mex	lo	10	TYP	Mex	Vcb	le	п	Vœ	lc
NUMBER	(%)	(%)	(mA)	8	(4)	(mA)	(%)	(%)	(mA)	(mA)	(mA)	0	(UA)	8	8	8	(mA)	(mA)	(pF)	(pF)	8	(mA)	(MHz)	8	(mA
DTC113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	8	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114E	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	٥	0.3	5	0.25	3	6	10	0	250	10	5
DTC114Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115E	0.5	5	0.1	3	0.3	_1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0.1	5	10	30	0	0.3	5	0.25	3	- 6	10	0	250	10	5
DTC123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	_ 6	10	0	250	10	5
DTC123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	_ 0	0.3	5	22	3	- 6	10	0	250	10	5
DTC123Y	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	- 6	10	0	250	10	5
DTC124E	0.5	5	0.1	3	0.2	5	0,1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0,25	3	- 6	10	0	250	10	5
DTC124X	0.4	5	0.1	2.5	0.3	2	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	1.8	_5]	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143Y	0.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143Z	0.5	5	0.1	1.3	0.3	5	0.1	0.3	5	0.25	1.5	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC144E	0.5	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.18	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC144V	1.0	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	- 5
DTC144W	0.8	5	0.1	4	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
OTC214Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	_

	Vin(o	ff)		Vin(o	n)		Vo	(on)			Ь		lc(OF	F)		Voe(S	AD		Cob	ත F = 1	MHz	-	CUT-O	55 ED	50
PART	Max	Vœ	kc	Min	Vœ	lc	TYP	Max	kc	1b	Max	Vin	Mex	Voc	Vin	Max		I	TYP	Max	Vœb	la	ا ا	Voe	,
NUMBER	1.7	(2)	(mA)	3	8	(uA)	8	8	(mA)	(mA)	(mA)	(v)	(uA)	8	8	8	(mA)	(mA)		(pF)	8	(mA)	(MHz)		kc (mA)
DTC1431	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	72	3	10	30	0	0.3	5	0.25	3	6	10	70	250	10	
DTC114T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	1	3	6	10	-	250	10	<u> </u>
DTC124T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	-	0.5		ě					
DTC144T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	-	0.5	1 3	-	10		250	10	_ -
DTC115T	0.5	5	0.1	3	0.3	1	0.1	0.3	5		0.15	-5	10	30		-			-3	6	10	0	250	10	1 3
DTC125T	0.8	- 5	0.1	3	0.3	-			-			÷		-	÷	0.3	- 1	0.1	3	- 6	10	0	250	10	5
				-3			0.1	0.3	3		0.33	-	10	30	0	0.3	0.5	0.05	3	6	10	0	250	10	5
DTC113T	0.5	- 3	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.2	3	6	10	0	250	10	5

• •	Vin(o	lf)		Vin(o	n)		Vo	(on)			ib		lc(Of	F)		Voe(S	AT)		Cob	② F=1	MHz		CUT-O	FF FA	FO
PART	Max	Voe	kç	Min	Vœ	k	TYP	Max	k	Ð	Max	Vin	Mex	Voc	Vin	Max	le	Ь	TYP	Max	Vcb		er l	Voe	k
NUMBER	8	(V)	(mA)	(2)	(V)	(uA)	(V)	(%)	(mA)	(mA)	(mA)	(V)	(44)	തി	(2)	M	(mA)		(pF)	(pF)	8	(mA)	(MHz)		(mA)
DTC114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	3	10	30	Ó	0.3	10	0.5	13.	6	10	(110-1)			(1110/
DTC124G	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	0.5			10		250	10	
DTC144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	-	10	30	0		_		3	-	10	0	250	10	5
DTC115G	0.3	5	0.1	1.4	0.3		0.1	0.3				Ť	_			0.3	10	0.5	3	- 5	10	0	250	10	5
DTD114G		-									0.88		10	30	0	0.3	10	0.25	3	6	10	0	250	10	5
0.01146	0.5	3	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	50	2.5	3	6	10	0	200	10	- 5

ELECTRICAL CHARACTERISTICS: 500 mA Series

	Vin(o	m)		Vin(or	n)		Vo	(on)		······	lb		lc(OF	F)		Voe(S	AT		Cab				I = : = =		
PART	Max	Vœ	lc	Min	Voe	lc	TYP	Max	lc	Ь	Max	Vin	Max		Vin	1			Cob	ĭ			COT-0	FF FR	EQ
NUMBER		(2)	(mA)	(%)	(V)	(uA)	8	3	(mA)		(mA)		(uA)	8	(5)	Max	(mA)	(mA)	TYP	Max		le	ıπ	Voe	
DTD113E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	17	0.3	(1187)	0.25	(pF)	(pF)	(0)	(mA)			(mA
DTD113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	-	0.3		323	3	6	10	0	200	10	50
DTD114E	0.5	5	0.1	3	0.3	10	0.1	0.3	50	2.5	0.88	5	10	30	-	0.3			3	- 0	10	0	200	10	50
DTD123E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	3.8	5	10	30	-	0.3		0.25	3	- 6	10	0	200	10	50
DTD143E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	-	0.3		0.25	3	•	10	0	200	10	50
DTD123Y	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	3.6	5	10	30	-	0.3		0.25	3	- 6	10	0	200	10	50
DTD122J	0.3	5	0.1	2	0.3	30	0.1	0.3	50	2.5	4.5	5	10	30	-	0.3	_		3	- 6	10	٥	200	10	50
DTD133H	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	2.4	- 5	10	30		_		0.25	3	- 6	10	0	200	10	50
																0.3	- 3	0.25	3	6	10	0	200	10	50

1	Vin(o	m)		Vin(o	ገ)		Vo	(no)			lb		Ic(OF	Ð		Voets	4.75								
PART	Max	Vce	lc	Min	Vce	lc	TYP	Mary	kc	II.	Max	16-				• `	<u> </u>		Cob	2) F=1	MHz		CUT-O	FF FR	EQ
NUMBER	~	M	(mA)	1						10		Vin	Mex	Voc	٧'n	Mex	ic	1b	TYP	Max	Vcb	le	m	Voe	k
DTD123T	- > >	(4)		(V)	(V)	(uA)	(8)	(8)	(mA)	(mA)	(mA)	(%)	(uA)	_(V)	(0)	10	(mA)	(mA)	(pF)	(pF)	~	(mA)	(MHz)		"
	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	- 5	0.25	19.7	(P)	10	(1110)	,,	17/	(Am)
DTD143T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	_	-				-	10	0	200	10	5
DTD163T	0,8	5	0,1	3	0.3	2	0.1		-						,	0.3	3	0.25	3	6	10	0	200	10	5
DTD114T	-		-	-			0,1	0,3	9	0,25	1.8		10	30	0	0.3	5	0.25	3	6	10		200	10	
0101141	0.3	5	0.1	1.4	0.3	1 1	0.1	0.3	5	0.25	0.58	5	10	30	0	0.3	200	0.25							- 3
								*				-						0.23	3	8	10	0	200	10	5

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Marill

DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

		RESISTO	RVALUE		R2/R	1	8	INPU	T VOLT	hFE			lcbo		loso				
PART	TYP	R1	R2	Min	Тур	Mex	Max	Min	Max	Min	Voe	c	Max	Vab	Macc	Voe	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)				(mA)	(%)	8		8	(mA)	(uA)	8	(uA)	0	MARK	TYPE	CIRCUIT
DTC113Z	NPN	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5	50	E12/121	C776	
DTC114E	NPN	10.0	10.0	0.8	1	1.2	100	40	10	30	5	5	0.5	50	0.5	50	24	C766	
DTC114W	NPN	10.0	4.7	0.37	0.47	0.57	100	-39	10	24	5	10	0.5	50	0.5	50	84	C778	ì
DTC114Y	NPN	10.0	47.0	3.7	4.7	5.7	100	4	8	68	5	5	0.5	50	0.5	50	64	C762	
DTC115E *	NPN	100.0	100.0	0.8	1	1.2	100	4	10	82	5	5	0.5	50	0.5	50	29	D861	
DTC115U	NPN	100.0	10.0	0.08	0.1	0.12	100	49	10	27	5	5	0.5	50	0.5	50	E89/189	D865	
DTC123E	NPN	2.2	2.2	0.8	1	1.2	100	-12	10	20	5	20	0.5	50	0.5	50	22	C733	
DTC123J	NPN	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E42/142	C774	
DTC123Y	NPN	2.2	10.0	3.6	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	50	62	C777	RI COST
DTC124E	NPN	22.0	22.0	0.8	1	1.2	100	49	10	56	5	5	0.5	50	0.5	50	25	C761	(Bass)
DTC124X	NPN	22.0	47.0	1.7	2.1	2.6	100	4	10	68	5	5	0.5	50	0.5	50	45	C770	<u> </u>
DTC143E	NPN	4.7	4.7	0.8	11	1.2	100	-30	10	20	5	10	0.5	50	0.5	50	23	C768	(E-mails)
DTC143X	NPN	4.7	10.0	1.7	2.1	26	100	ò	7	30	5	10	0.5	50	0.5	50	43	C769	
DTC143Y	NPN	4.7	22.0	3.7	4.7	5.7	100	-30	6	56	5	5	0.5	50	0.5	50	63	C785	
DTC143Z	NPN	4.7	47.0	8	10	12	100	-30	5	80	5	10	0.5	50	0.5	50	E23/123	C775	
DTC144E	NPN	47.0	47.0	0.8	1	1.2	100	-40	15	68	5	5	0.5	50	0.5	50	26	C782	
DTC144V	NPN	47.0	10.0	0.17	0.21	0.26	100			33	5	5	0.5	50	0.5	50		C774	
DTC144W	NPN	47.0	22.0	0.37	0.47	0.57	100	-40	10	56	5	5	0.5	50	0.5	50		C757	
DTC214Y	NPN	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50		C762	
DTC1D3R	NPN	2.7	1.0	0.33	0.37	0.41	100	-15	15	20	5	30	0.5	50	0.5	50			

		RESISTO	R VALUE	Vcbo	Voso	Vebo	ic		hFE				Icbo		lebo	Ī			
PART	TYP	R1	R2	Mex	Max	Max	Max	Min	Тур	Max	Voe	lc	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	8	(5)	8	(mA)				(0)	(mA)	(uA)	(2)	(uA)	8	MARK	TYPE	
DTC143T	NPN	4.7	NONE	53	50	5	100	100	250	600	5	1	0.5	50	0.5	4	3	C764	
DTC114T	NPN	10.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	4	C785	
DTC124T	NPN	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	5	C771	RI COMMO
DTC144T	NPN	47.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4		C772	
DTC115T	NPN	100.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4		D664	
DTC125T	NPN	200.0	NONE	50	50	5	100	100	250	600			0.5	50	0.5	-	OA.	D863	
DTC113T	NPN	1.0	NONE	50	50	5	100	100	250	600	$\overline{}$	1	0.5	50	0.5	4		C786	

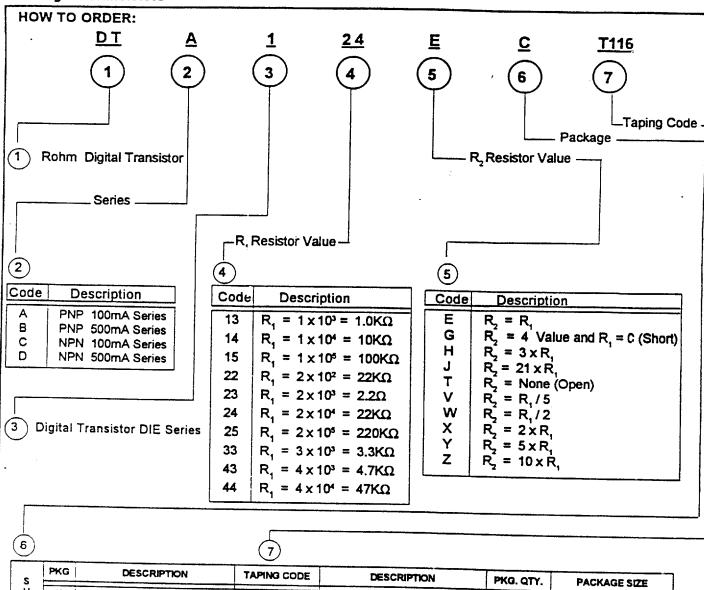
٠,		RESISTO	RVALUE	Vcbo	Voec	Vebo	lc		hFE				lcbo		lebo				
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Тур	Max	Vce	lc	Mex	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	8	8	M	(mA)			1	8	(mA)	(uA)	l m	(uA)	8	MARK	TYPE	CIRCUIT
DTC114G	NPN	0	10,0	50	50	5	100	30		•	5	5	0.5	50	580	4	K24	C780	
DTC124G	NPN	0	22.0	50	50	5	100	56	-	1	5	5	0.5	50	260	4		C781	Sees co
DTC144G	NPN	0	47.0	50	50	5	100	68	•		5	5	0.5	50	130	4		C782	RZ
DTC115G	NPN	0	100.0	50	50	5	100	82		T -	5	5	0.5	50	58	4		D862	~
DTD114G	NPN	0	10.0	50	50	5	500	58		·	5	100	0.5	50	0.5	1		D726	

ELECTRICAL CHARACTERISTICS: 500 mA Series

	ł	RESISTO	PVALUE		R2/R		k	INPU	TVOLT	hFE		-	Icbo		loso	T		T	
PART NUMBER	TYP	R1 (K)	R2 (K)	Min	Тур	Max	Max (mA)	Min (V)	Max (V)	Min	Vœ (V)	lc (mA)	Macc (UA)				PART MARK	DIE	EQUIVALENT CIRCUIT
DTD113E	NPN	1.0	1.0	0.8	1	1.2	500	-10	10	33	5	50	0.5	50	0.5	50		D717	CINCUIT
DTD113Z	NPN	1.0	10.0	8	10	12	500	-10	5	56	5	50	0.5	50	0.5	50		D718	
DTD114E	NPN	10.0	10.0	0.8	1	1.2	500	-40	10	56	5	50	0.5	50	0.5	50		D714	
DTD123E	NPN	2.2	2.2	0.6	1	1.2	500	-12	10	39	5	50	0.5	50	0.5			D712	No. BI
DTD143E	NPN	4.7	4.7	0.8	1	1.2	500	-30	10	47	5	50	0.5		0.5	50		D713	(Same) (Comme
DTD123Y	NPN	2.2	10.0	3.6	4.5	5.5	500	-12	5	56	5	50	0.5	50	0.5	50		D715	1 1
DTD122J	NPN	0.22	4.7	17.1	21.3	25.6	500	-5	5	47	5	50	0.5		0.5	50			
DTD133H	NPN	3.3	10.0	2.4	3	3.7	500	-20	6	56	5	50	0.5		0.5			D725	

		HESISTO	RVALUE	Vabo	Voec	Vebo	∖ kc	l	hFE				icbo		lebo			T	[
PART	TYP	R1	R2	Max	Max	Macc	Max	Min	Тур	Max	Voe	lc	Mex	Vcb	Matox	[Val	PART	٠	50
NUMBER		(K)	(K)	8	8	M	(mA)		"		M			8		~	MARK	DIE	EQUIVALENT
DTD1231	NPN	2.2	NONE	50	50	5	500	100	250	600	- 5	50	0.5	50	- V V	-4		TYPE	CIRCUIT
DTD143T	NPN	4.7	NONE	50	50	5	500	100	250	600		50	0.5		0.5			D723	RI COMM
DTD163T	NPN	6.8						-	-	+				50	0.5	4	F13	D720	<u> </u>
				-	200	2		100	230	600	_ 3	50	0,5	50	0,5	4	507	D721	\
0101141	MPN	10.0	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	F04	D722	الكافئ وسندسا
DTD114T	NPN	6.8 10.0	NONE	50 50	50 50	5	500 500	100	250 250	600	5 5	50 50	0.5 0.5	50	0.5 0.5	4		D721 D722	

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S	PKG	DESCRIPTION	TAPING CODE	DESCRIPTION	PKG. QTY.	PACKAGE SIZE
U R F A	K	SMT (SC-59/JAPANESE SOT-23)	*T146 *T147 *T246	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLD SIDE 1 PIN SIDE ON FEED HOLE SIDE	3,000 3,000 10,000	178mm/7" Reel 178mm/7" Reel 330mm/13" Reel
E M	C	SST (EUROPEAN SOT-23)	*T116 *T117 *T216	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLE SIDE 1 PIN SIDE ON FEED HOLE SIDE	3,000 3,000 10,000	178mm/7" Reel 178mm/7" Reel 330 mm/13" Reel
0 0	υ	UMT (DTA & DTC ONLY)	*T106 T107	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLE SIDE	3,000	178 mm/7" Reel 178 mm/7" Reel
T	E	EM3 (DTA & DTC ONLY)	*TL TR	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLE SIDE	3,000 3,000	178 mm/7" Reel 178 mm/7" Reel
L E	S	SPT (Short TO-92)	* TP NONE	AMMO BOX RADIAL BULK	5,000 2,000	W-335/H-135/D-40(mm) Polyethylene Bag
	٧	ATV	* TV2 TV3	AMMO BOX RADIAL AMMO BOX RADIAL	2,500 2,500	W-334/H-280/D-41(mm) W-334/H-280/D-41(mm)
,	L	FTL	TL2 TL3	AMMO BOX RADIAL AMMO BOX RADIAL	2,500 2,500	W-334/H-280/D-41(mm) W-334/H-280/D-41(mm)
/	#	Discontinued	"NONE C1	BULK TUBE	2,000 8,000	Polyetitylene Bag
5	A	Descontinued	NONE C2	BULK TUBE	2,000 8,000	L-565/W-4.2/H-11.5(mm) Polyethylene Bag L-565/W-4.2/H-12.6(mm)

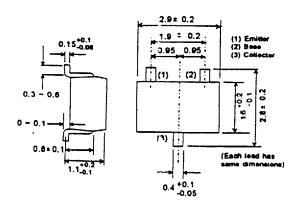
Note: SOT-23, SC-59 and SPT packages are standard products.

* Standard Taping Codes

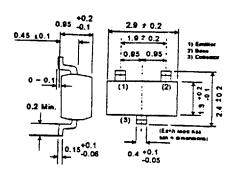
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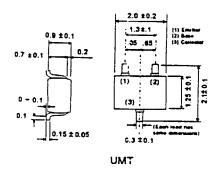
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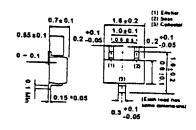


SMT (SC-59/Japanese SOT-23)

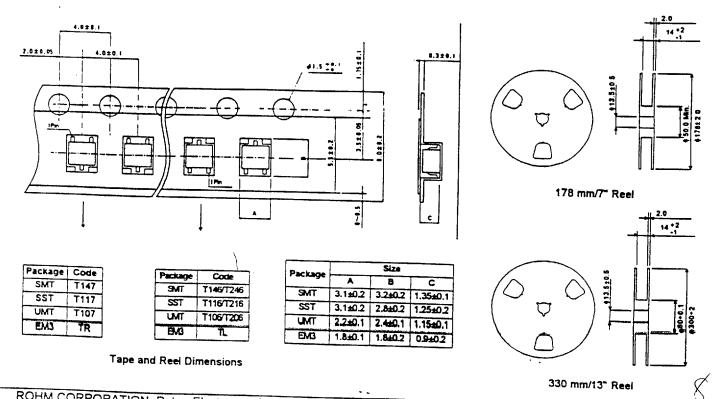


SST (European SOT-23)



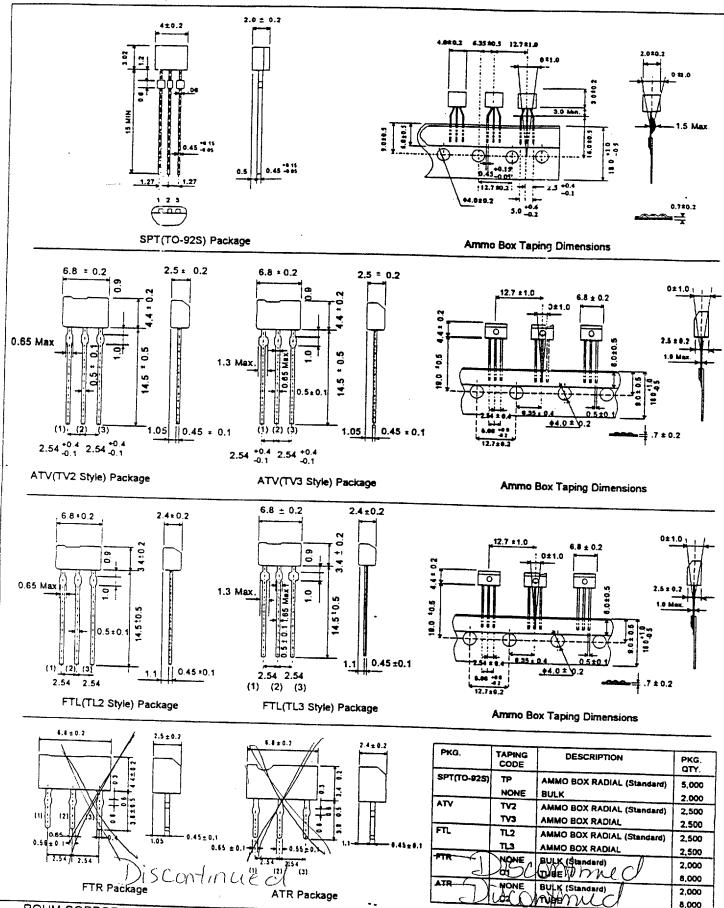


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