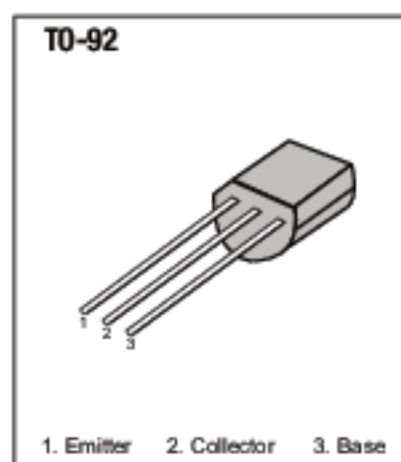
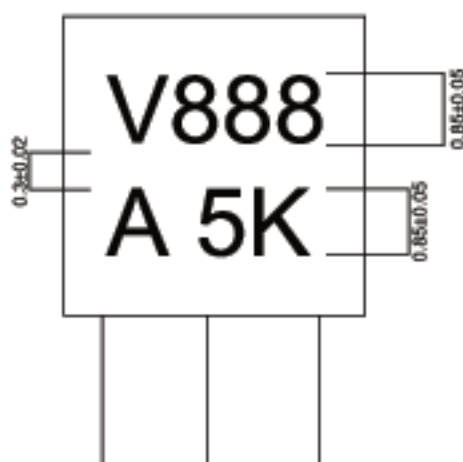


1. Ultra Low-Noise Audio Amplifier Applications

The 2SV888 is a PNP epitaxial transistor which has been optimized for use in audio applications. The ultra-low input voltage noise of the 2SV888 is typically only 0.3 dB over the entire audio bandwidth of 20 Hz to 20 kHz. Its ultra-low noise, high bandwidth and high current gain make the 2SV888 an ideal choice for demanding ultra-low noise preamplifier applications.

2. Ultra Low-Noise Audio Amplifier Applications

- Low-noise: $NF=2dB(typ.)$ $R_G=100\Omega$, $V_{CE}=6V$, $I_C=100\mu A$, $f=1kHz$
: $NF=0.3dB(typ.)$ $R_G=1k\Omega$, $V_{CE}=6V$, $I_C=100\mu A$, $f=1kHz$
- High DC current gain: $HFE=200-700$
- High breakdown voltage: $V_{CEO}=-120V$
- Low pulse noise. Low $1/f$ noise



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3. Absolute Maximum Ratings (T_a=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	-120	V
Collector-Emitter Voltage	V _{CE0}	-120	V
Emitter-Base Voltage	V _{EB0}	-5	V
Collector Current (DC)	I _C	-100	mA
Base Current (DC)	I _B	-20	mA
Collector Dissipation	P _C	300	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55-150	°C

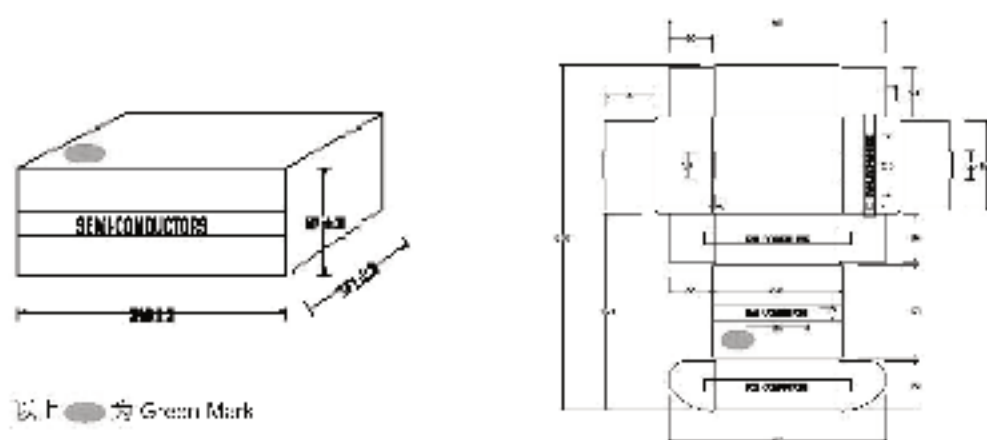
4. Electrical Characteristics (T_a=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-off Current	I _{CE0}	V _{CE} =-120V, I _B =0			-0.1	μA
Emitter Cut-off Current	I _{EB0}	V _{EB} =-5V, I _C =0			-0.1	μA
Collector-Emitter Breakdown Voltage	BV _{CE0}	I _C =-1mA, I _B =0	-120			V
Emitter-Base Breakdown Voltage	BV _{EB0}	I _E =-100μA, I _C =0	-5			V
Collector-Base Breakdown Voltage	BV _{CB0}	I _C =-100μA, I _E =0	-120			V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-10mA, I _B =-1mA			-0.3	V
Base-Emitter Voltage	V _{BE}	V _{CE} =-6V, I _C =-2mA		-0.65		V
DC Current Gain	h _{FE}	V _{CE} =-6V, I _C =-2mA	200		700	
Current Gain Bandwidth Product	f _T	V _{CE} =-6V, I _C =-1mA		100		MHz
Output Capacitance	C _{OE}	V _{CE} =-10V, I _E =0, f=1MHz		4.0		pF
Noise Figure	NF	V _{CE} =-6V, I _C =-0.1mA, f=10Hz, R _G =10k Ω			4	dB
		V _{CE} =-6V, I _C =-0.1mA, f=1kHz, R _G =10k Ω			1.2	
		V _{CE} =-6V, I _C =-0.1mA, f=1kHz, R _G =100 Ω		2		

a. Box1



b. Box2



Packing	Plastic Bag	Box		
	Pcs/Bag	Bags/Box2	Box2/Box1	Pcs/Box1
2SA970GR	1000	10	10	100,000

c. Green-Mark



Pb-FREE

Name of the Part	Material Weight (mg/unit)	Material Name	Material Analysis (element)	Material Analysis (weight%)
Leadframe	27	PMC	Fe Zn P Cu	2.4% 0.03% 0.12% 97.45%
Resin	47	Epoxy Resin	Epoxy Resin SiO ₂ Fe Cu Al Pb	15% 73% 8% <1% <1% <1%
Chip	1.25	Doped Silicon	Si Al	99.4% 0.6%
Wires	5	Gold	Au	99.99
Leads Finishing	0.25	Lead-Free	Pb<100ppm	