(SMALL-SIGNAL TRANSISTOR)

2SA1287

FOR RELAY DRIVE, POWER SUPPLY APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

i 2SA1287 is silicon PNP epitaxial type transistor. Designed with high Voltage, high collector current, dissipation and high hee.

Complementary with 2SC3247.

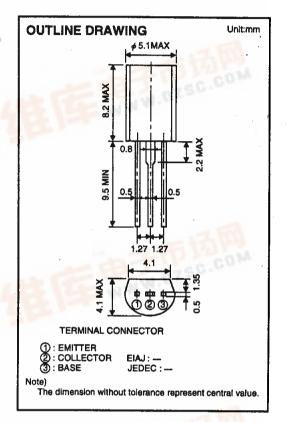
FEATURE

- ●High hFE hFE=400 to800
- ●High voltage VcEo=-50V
- ●Low collector to emitter saturation voltage.

 VCE(sat)=-0.2V (@IC=-500mA, IB=-10mA)
- ●High collector dissipation Pc=900mW

APPLICATION

Relay drive or power supply of audio machine, VCR, and other electronic machine.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	-50 V	
VEBO	Emitter to Base voltage	-6 V	
VCEO	Collector to Emitter voltage	-50	V
Ісм	Peak collector current	-2	Α
lc	Collector current	-1	Α
Pc	Collector dissipation(Ta=25℃)	900	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55 to +150	rc

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	1 0/111
V(BR)CBO	C to B break down voltage	IC=-10 μ A,IE=0	-50			V
V(BR)EBO	E to B break down voltage	IE=-10 μ A,IC=0	6			V
V(BR)CEO	C to E break down voltage	Ic=-1mA,RBE=∞	-50			V
Ісво	Collector cut off current	VcB=-40V,IE=0			-0.1	μA
IEBO	Emitter cut off current	VEB=-2V,IC=0			-0.1	μA
hFE *	DC forward current gain	Vce=-6V,lc=-100mA	400		800	
VCE(sat)	C to E saturation voltage	Ic=-500mA,IB=-10mA		-0.2	-0.5	V
fr	Gain band width product	Vce=-10V,IE=10mA		90		MHz
Соь	Collector output capacitance	VcB=-10V,IE=0, f=1MHz		30		ρF

* : It shows her classification in right table.

ltem	G
hfe	400 to 800

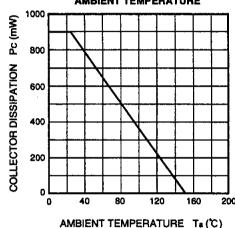
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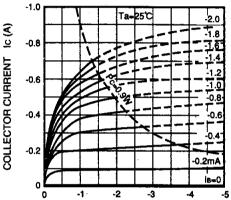
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TYPICAL CHARACTERISTICS

COLLECTOR DISSIPATION VS. AMBIENT TEMPERATURE

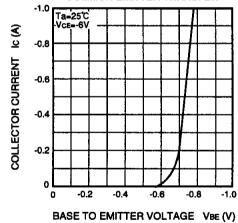


COMMON EMITTER OUTPUT

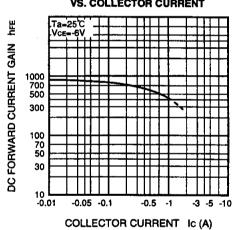


COLLECTOR TO EMITTER VOLTAGE VCE (V)

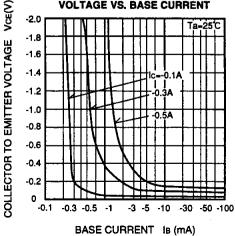
COMMON EMITTER TRANSFER



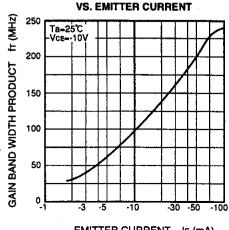
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT



GAIN BAND WIDTH PRODUCT

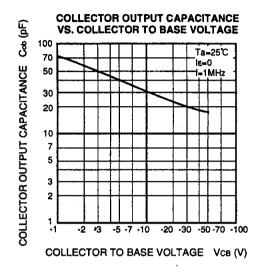


EMITTER CURRENT IE (mA)

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