FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SD1447 is a silicon NPN epitaxial type transistor designed for 2 to 3.5W output low frequency power amplify application.

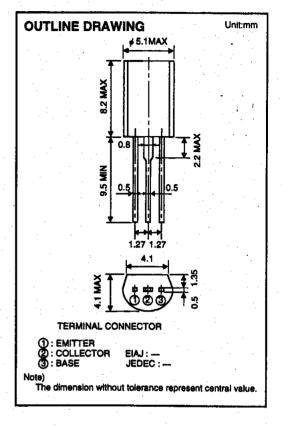
Complementary with 2SB1035.

FEATURE

- ●High collector current Icm =1.5A
- ●High gain band width product fr=100MHz typ
- ●High collector dissipation Pc= 900mW
- ●Excellent linearity of DC foward current gain

APPLICATION

2 to 3.5W output low frequency amplify circuit of radio, cassette tape recorder, mini stereo.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
VCBO	Collector to Base voltage	30	V
VEBO	Emitter to Base voltage	4	V
VCEO	Collector to Emitter voltage	25	V
Ісм	Peak Collector current	1.5	Α
lc	Collector current	1	A
Pc	Collector dissipation (Ta=25°C)	900	mW
Tj	Junction temperature	+150	ď
Tatg	Storage temperature	-55 to +150	ď

ELECTRICAL CHARACTERISTICS (Ta=25°C)

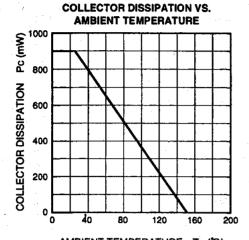
Symbol	Parameter	Test conditions	Limits			Unit
		Test conditions		Тур	Max	Orac
V(BR)CBO	C to B break down voltage	IC=10 μA, IE=0	30			V
V(BR)EBO	E to B break down voltage	IE=10 μA, IC=0	4			V
V(BR)CEO	C to E break down voltage	Ic =100 μA, RBE=∞	25		1	V
Ісво	Collector cut off current	VCB = 25V, IE=0			1	μΑ
IEBO	Emitter cut off current	VEB =2V, IC=0			1	μА
hfe *	DC forward current gain	VcE=1V, lc= 500mA	55		300	-
VCE(sat)	C to E saturation voltage	Ic =500mA, is=25mA			0.5	V
ft	Gain band width product	VCE =6V, IE=-10mA		100		MHz

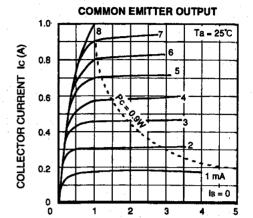
^{* :} It shows her classification in right table.

ltem	C	Δ	E
hFE	55 to 110	90 to 180	150 to 300

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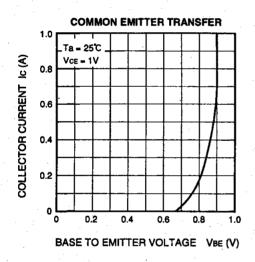
TYPICAL CHARACTERISTICS

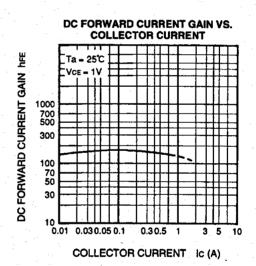


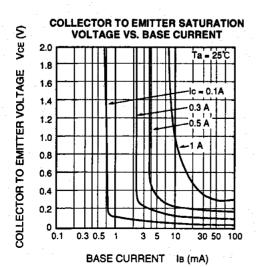


COLLECTOR TO EMITTER VOLTAGE VCE (V)











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