SMALL-SIGNAL TRANSISTOR

2SD1447

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

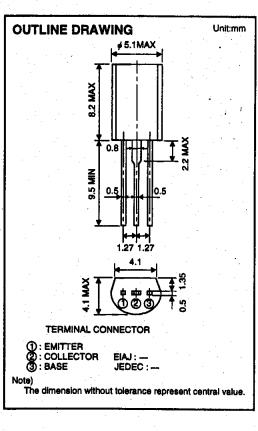
High gain band width product fr=100MHz typ

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)

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

ELECTRICAL CHARACTERISTICS (Ta=25°C)

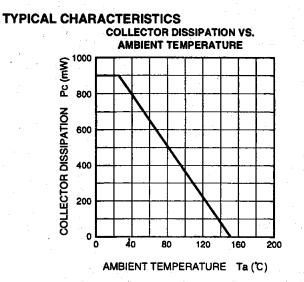
Symbol	Parameter	Test conditions		1.1	Limits			1.1-14
Cynhoor 				Min	Тур	Max	Unit	
V(BR)CBO	C to B break down voltage	IC=10 μA, IE=0			30			V
V(BR)EBO	E to B break down voltage	iE=10 μA, ic=0			4			V
V(BR)CEO	C to E break down voltage	Ic =100 μA, RBE=∞			25			v
Ісво	Collector cut off current	VCB = 25V, IE=0					1 .	μA
IEBO	Emitter cut off current	VEB =2V, IC=0					1	μA
hfe *	DC forward current gain	VcE=1V, Ic= 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 h	FE classification in right table.		· · · · · · · · · · · · · · · · · · ·					
			ltem	C		D		E
			hfe	55 to 1	110	90 to 180	150	to 300

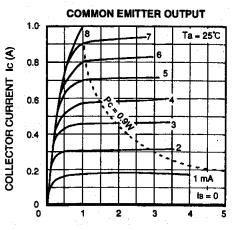
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SMALL-SIGNAL TRANSISTOR

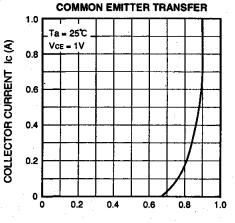
2SD1447

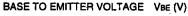
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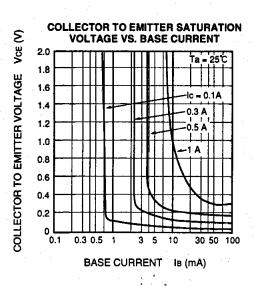




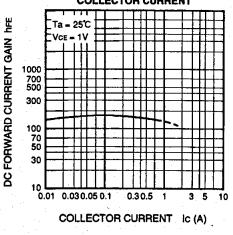
COLLECTOR TO EMITTER VOLTAGE VCE (V)











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http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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