查询"2SD1447"供应商

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.

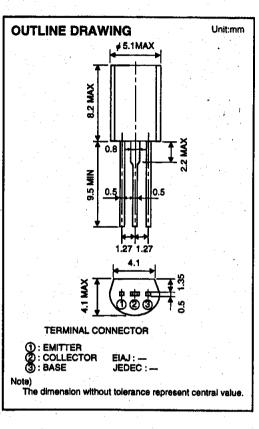
FEATURE

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)

Symbol	Parameter Ratings		Unit		
Vсво	Collector to Base voltage	30	V		
VEBO	Emitter to Base voltage	itter to Base voltage 4			
VCEO	Collector to Emitter voltage	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		

2.1

ELECTRICAL CHARACTERISTICS (Ta=25°C)

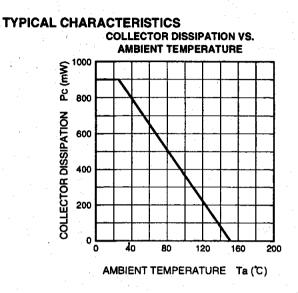
Symbol	Parameter	Test conditions		Limits			1	
Cynibol				Min	Тур	Max	Unit	
V(BR)CBO	C to B break down voltage	IC =10 μA, IE=0	· · · · · · · · · · · · · · · · · · ·		30			V
V(BR)EBO	E to B break down voltage	IE=10 μA, IC=0			4			V
V(BR)CEO	C to E break down voltage	Ic =100 μ A, RBE=∞	-		25			v
Ісво	Collector 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
fτ	Gain band width product	VCE =6V, IE=-10mA		· .		100		MHz
: It shows h	FE classification in right table.		·····					
			ltern	C		D		E
			hFE	55 to	110	90 to 180	150	to 300

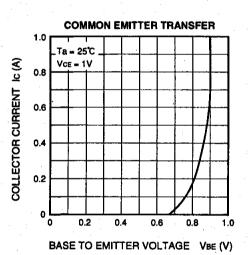
ISAHAYA ELECTRONICS CORPORATION

(SMALL-SIGNAL TRANSISTOR)

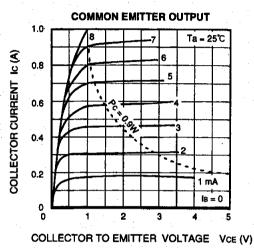
2SD1447

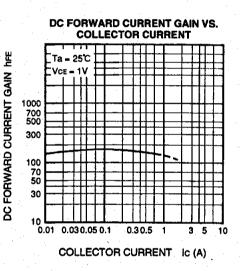
FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE





COLLECTOR TO EMITTER SATURATION Vce (V) **VOLTAGE VS. BASE CURRENT** 2.0 ſa 25 1.8 COLLECTOR TO EMITTER VOLTAGE 1.6 lc = 0.1A 1.4 0.3 A 1.2 1.0 A 0.8 0.6 0.4 0.2 0 0.1 0.3 0.5 1 3 5 10 30 50 100 BASE CURRENT IB (mA) .





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