New Jersey Semi-Conductor Products, Inc

BLV20

DESCRIPTION

The BLV20 is an N-P-N silicon planar epitaxial transistor intended for use in class-A, B and C operated HF and VHF transmitters with a nominal supply voltage of 28 V. The transistor is resistance stabilized and is guaranteed to withstand severe load mismatch conditions

It has a 3/8" flange envelope with aceramic cap. All leads are isolated from the flange. QUICK REFERENCE DATA

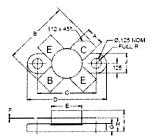
R.F. performance up to T_h = 25 $^{\circ}$ C in an unneutralized common-emitter

class-B circuit

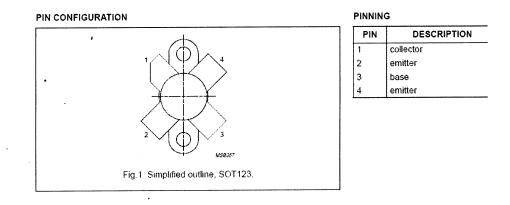
MODE OF	V _{CE}	f	P _L	G _p	η
OPERATION	V	MHz	W	dB	%
C.W.	28	175	8	> 12	> 65

CHARACTERISTICS Tc = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS	
BVCBO	I _C = 200 mA			65			V
BV _{CES}	I _c = 2.0 mA			65			v
BVCEO	I _C = 10 mA			35			V
BVEBO	I _E = 1.0 mA		•	4.0			V
Ісво	V _{CB} = 36 V		2 / 1,00 million and an a 10 10 million			1.0	mA
h _{FE}	V _{CE} = 5.0 V	I _C = 400 mA		10		100	
Cc	V _{C5} = 28 V		f = 1.0 MHz		10		pF
PG	V _{CC} = 28 V	Pout = 8.0 W	f = 175 MHz	12	60		'd₿ %
P _G ղշ	V _{CC} = 28 V	P _{OUT} = 8.0 W	f = 175 MHz	12	60		



ЫМ	MINIMUM incres / mm	MAXIMUM hotes / mm
A	220 / 5.59	.230 / 5.84
8	.785 / 19.94	
C	720 / 19.29	.730 / 18.54
0	970 / 24 64	.980 / 24.89
ε		.385 / 9.78
F	.004 / 0.10	.008 / 0.15
G	055 / 2.16	.105 (2.87
н	150 / 4.05	.190 (4.57
1		.290 / 7.11
3	240 / 6,10	.255 / 6.46



PRODUCT SAFETY This device incorporates beryllium oxide, the dust of which is toxic. The device is entire safe provided that the BeO disc is not damaged.

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