

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

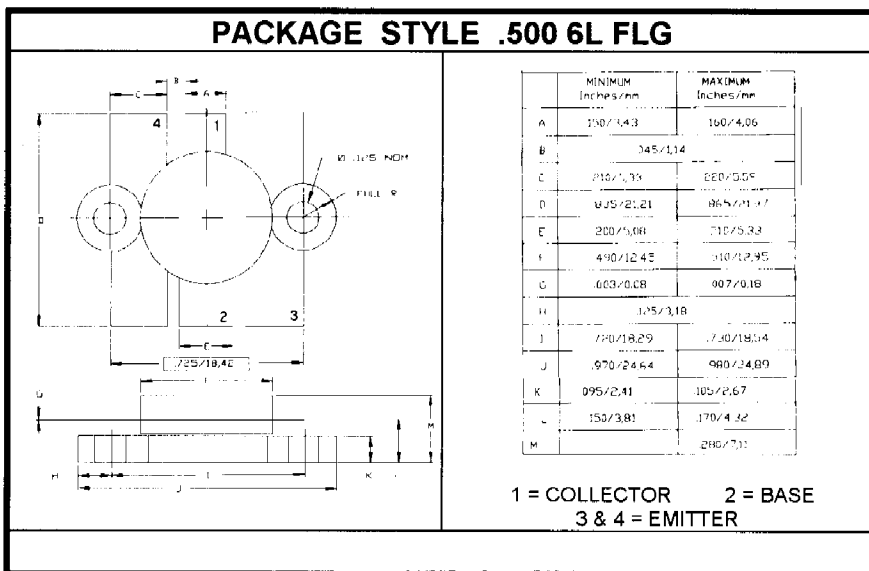
BLV33F is Designed for Operation in Band III TV Transposers and Transmitter Amplifiers from 170 to 230 MHz.

FEATURES:

- Gold Metalization
- Internal Input Matching
- **Omnigold™** Metalization System

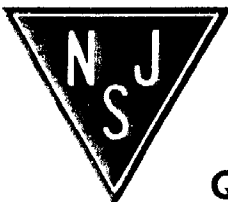
MAXIMUM RATINGS

I_C	10 A
V_{CB}	60 V
V_{CE}	35 V
P_{DISS}	140 W @ $T_C = 25^\circ C$
T_J	$-65^\circ C$ to $+200^\circ C$
T_{STG}	$-65^\circ C$ to $+150^\circ C$
θ_{JC}	1.5 $^\circ C/W$



CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 50$ mA			35			V
BV_{CER}	$I_C = 50$ mA	$R_{BE} = 10 \Omega$		60			V
BV_{EBO}	$I_E = 10$ mA			4.0			V
I_{CES}	$V_E = 28$ V					5	mA
h_{FE}	$V_{CE} = 5.0$ V	$I_C = 1.0$ A		10		100	---
C_{ob}	$V_{CB} = 28$ V	$f = 1.0$ MHz				80	pF
G_{PE}	$V_{CE} = 25$ V	$I_{CQ} = 3.2$ A	$f = 225$ MHz	13.5	14.5		dB
IMD_3	$P_{REF} = 16$ W	Vision = -8 dB Side Band = -16 dB	Snd. = -7 dB			-55	dBc



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.