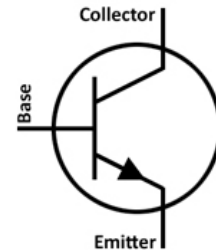




IMAGE SERVES AS A REPRESENTATION ONLY

FEATURES

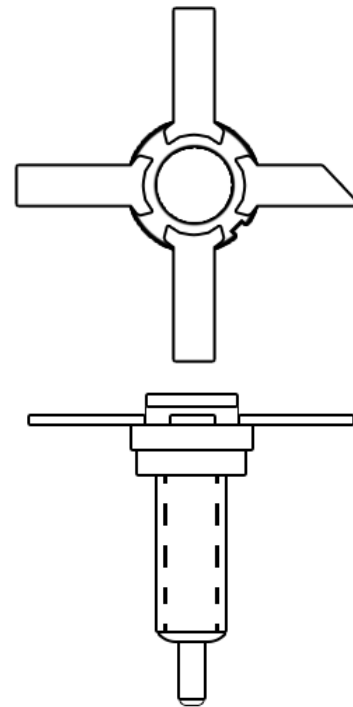
- Hermetically sealed ceramic-metal stud stripline package.



MAXIMUM RATINGS

Description	Sym.	Value	Unit
Collector-to-Base Voltage:	V_{CBO}	55	V
Collector-to-Emitter Voltage:	V_{CEO}	30	V
Emitter-to-Base Voltage:	V_{EBO}	3.5	V
Collector Current:	I_C	200	mA
Power Dissipation @ 25°C Stud Temp.:		5	W
Thermal Resistance (Junction-to-stud):	θ_{JC}	35	°C/W
Operating Junction Temperature:	T_J	-65 to +200	°C
Storage Temperature:	T_{STG}	-65 to +200	°C
Stud Torque:		7	IN-LBS.

DRAWING (TOP/SIDE)



ELECTRICAL CHARACTERISTICS (@ 25°C UNLESS OTHERWISE SPECIFIED)

Description	Sym.	Min	Max	Unit
Emitter To Base Voltage $I_{EBO}=100\mu A$	V_{EBO}	3.5		V
Collector to Emitter Voltage $I_C = 10mA, I_B = 0$	V_{CEO}	30		V
$I_C = 10mA, R = 10 OHMS$	V_{CER}	55		V
Collector Cutoff Current $V_{CE} = 55V, V_{BE} = -1.5V$	I_{CEX}		1.0	mA
DC Current Gain $V_{CE} = 5.0V, I_C = 100mA$	h_{FE}	20	150	
High Frequency Current Gain $I_C = 100mA, V_{CE} = 5V, f = 500MHz$	h_{fe}	3.2		
Output Capacitance $V_{CB} = 30V, f = 1.0MHz$	C_{ob}	1.8	2.5	pF
Power Output (Collector Eff. 25% Min.) $V_{CE}=28V, P_{(IN)}=300mW, f=2.0GHz$ in Vendor's Test Circuit	$P_{(OUT)}$	1.0		W
Noise Figure	NF		5.0	dB
RF Power Gain $f=400MHz, P_{OUT}=-10DBM$	P_G	15		dB

