

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI SD1275-01** is Designed for Class C, 13.6 V High Band Applications up to 160 MHz.

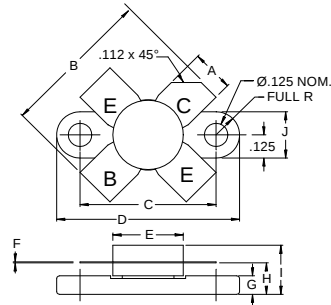
FEATURES:

- Common Emitter
- $P_G = 9$ dB at 5 W/160 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	8.0 A
V_{CBO}	36 V
V_{CEO}	16 V
V_{EBO}	4.0 V
P_{DISS}	70 W @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+200^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
θ_{JC}	1.2 $^\circ\text{C/W}$

PACKAGE STYLE .380 4L FLG



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.785 / 19.94	
C	.720 / 18.29	.730 / 18.54
D	.970 / 24.64	.980 / 24.89
E		.385 / 9.78
F	.004 / 0.10	.006 / 0.15
G	.085 / 2.16	.105 / 2.67
H	.160 / 4.06	.180 / 4.57
I		.280 / 7.11
J	.240 / 6.10	.255 / 6.48

CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 50$ mA	16			V
BV_{CES}	$I_C = 15$ mA	36			V
BV_{EBO}	$I_E = 5.0$ mA	4.0			V
I_{CBO}	$V_{CB} = 15$ V			5.0	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 250$ mA	20		---	---
C_{OB}	$V_{CB} = 15$ V $f = 1.0$ MHz		95		pF
P_G $POUT$	$V_{CE} = 13.6$ V $P_{IN} = 5.0$ W $f = 160$ MHz	9	60		dB %

Mouser Electronics

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