NPN SILICON RF POWER TRANSISTOR

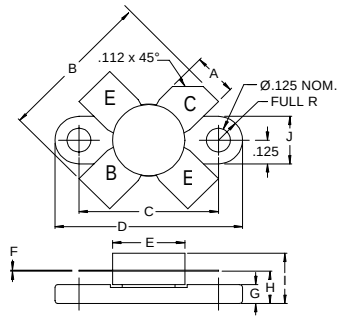
DESCRIPTION:

The **ASI SD1285** is Designed for broadband operation in commercial and amateur communication equipment up to 30 MHz.

FEATURES:

- P_G = 15 dB min. at 20 W/30 MHz
- **IMD** = -30 dBc max. at 20 W(PEP)
- ***Omnigold***™ Metalization System
- Emitter Ballasting

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

MAXIMUM RATINGS

I_C	4.5 A
V_{CBO}	36 V
V_{CEO}	18 V
V_{EBO}	4.0 V
P_{DISS}	80 W @ T_C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	2.2 °C/W

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	I_C = 50 mA	36			V
BV_{CEO}	I_C = 50 mA	18			V
BV_{CES}	I_C = 50 mA	36			V
BV_{EBO}	I_E = 5.0 mA	4.0			V
I_{CES}	V_{CE} = 15 V			5.0	mA
h_{FE}	V_{CE} = 5.0 V I_C = 1.0 A	10		200	---
C_{ob}	V_{CB} = 12.5 V f = 1.0 MHz		100		pF
G_P	V_{CC} = 12.5 V I_{CQ} = 25 mA f = 30 MHz	15	18		dB
IMD_3	P_{OUT} = 20 Watts (PEP)			-30	dBc

Specifications are subject to change without notice.