

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

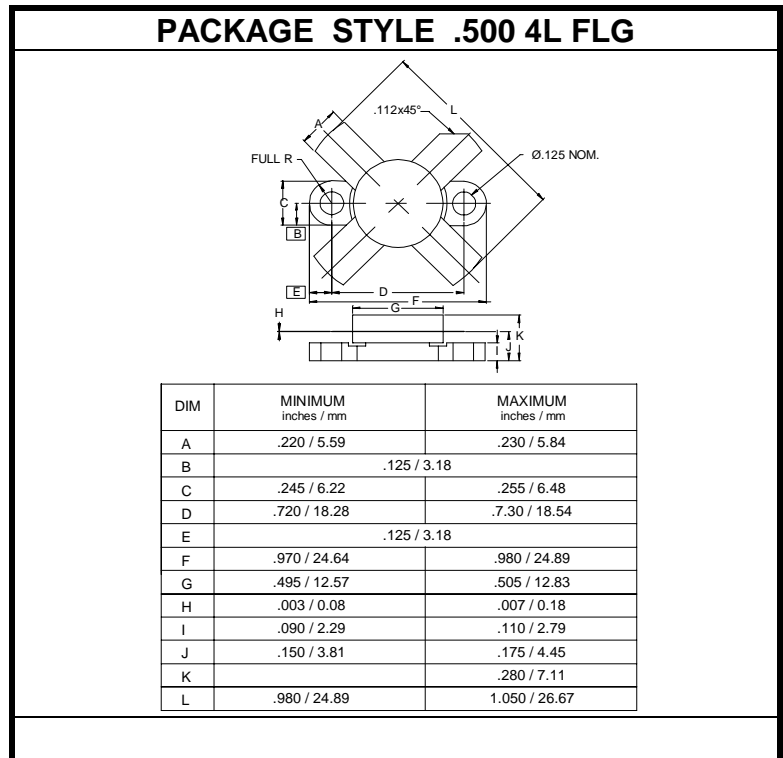
The **ASI SD1487** is Designed for HF communications up to 30 MHz.

FEATURES:

- $P_G = 12$ dB min. at 100 W/30 MHz
- $IMD_3 = -30$ dBc max. at 100 W(PEP)
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	20 A
V_{CBO}	36 V
V_{CEO}	18 V
V_{EBO}	4.0 V
P_{DISS}	290 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	0.6 °C/W


CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 100$ mA			36			V
BV_{CES}	$I_C = 100$ mA			36			V
BV_{CEO}	$I_C = 100$ mA			18			V
BV_{EBO}	$I_E = 10$ mA			4.0			V
I_{CES}	$V_{CE} = 15$ V					20	mA
h_{FE}	$V_{CE} = 5.0$ V	$I_C = 5.0$ A		10		200	---
C_{OB}	$V_{CB} = 12.5$ V	$f = 1.0$ MHz			400		pF
G_P	$V_{CE} = 12.5$ V	$I_{CQ} = 150$ mA	$f = 30$ MHz	11	13		dB
IMD_3	$V_{CE} = 12.5$ V	$I_{CQ} = 150$ mA	$P_{OUT} = 100$ W			-30	dBc