

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

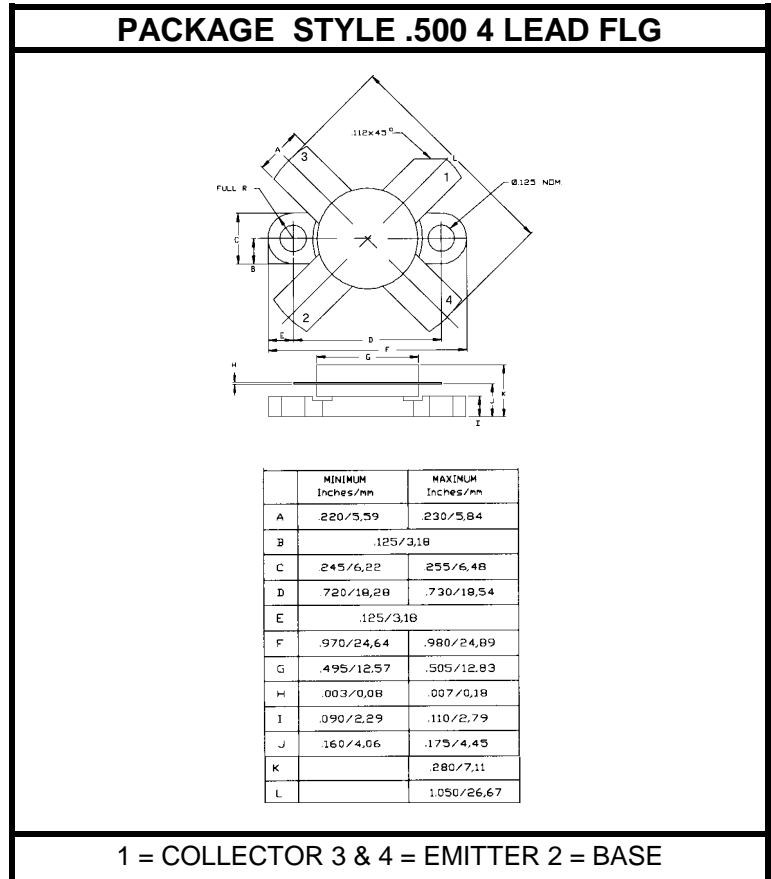
The **ASI SD1019-5** is Designed for VHF Communications up to 136 MHz

**FEATURES:**

- $P_G = 4.5$  dB Minimum at 150 MHz
- **Omnigold™** Metallization System

**MAXIMUM RATINGS**

$I_C$	9.0 A
$V_{CB}$	65 V
$V_{CE}$	35 V
$P_{DISS}$	117 W @ $T_C = 25^\circ C$
$T_J$	$-65^\circ C$ to $+200^\circ C$
$T_{STG}$	$-65^\circ C$ to $+150^\circ C$
$\theta_{JC}$	$1.7^\circ C/W$


**CHARACTERISTICS**  $T_C = 25^\circ C$ 

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 20$ mA			65			V
$BV_{CEO}$	$I_C = 200$ mA			35			V
$BV_{EBO}$	$I_E = 10$ mA			4.0			V
$I_{CBO}$	$V_{CB} = 30$ V				1.5		mA
$h_{FE}$	$V_{CE} = 5.0$ V	$I_C = 500$ mA		5.0			---
$C_{OB}$	$V_{CB} = 30$ V	$f = 1.0$ MHz				150	pF
$P_{OUT}$	$V_{CC} = 13.5$ V	$P_{IN} = 10.6$ W	$f = 150$ MHz	30			W
$P_G$				4.5			dB