

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

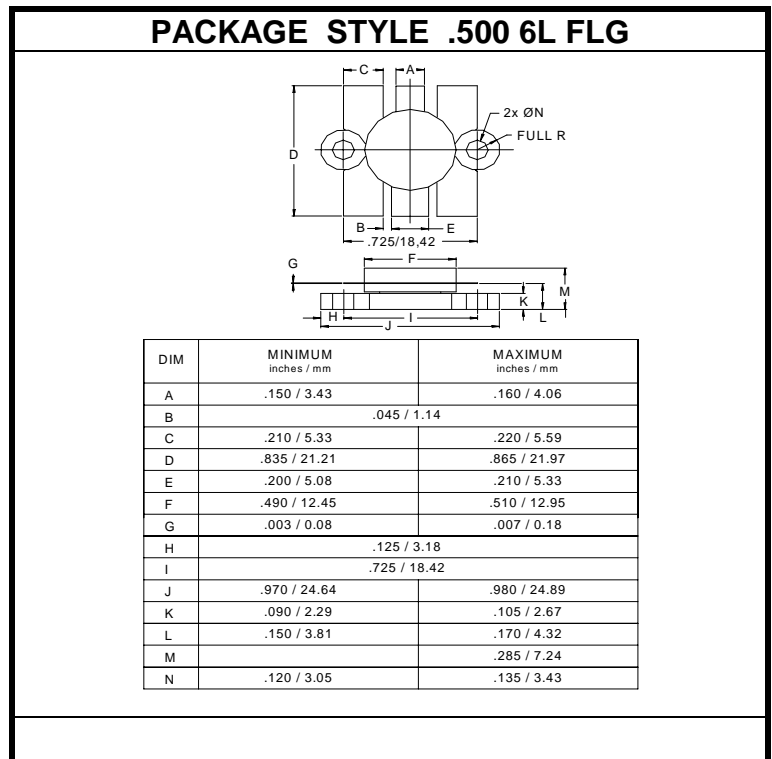
The **ASI J02015A** is Designed for High Power Class C Amplifier in, 225 to 400 MHz Military Communication Equipment.

**FEATURES:**

- Internal Input Matching Network
- $P_G = 8.4$  dB at 70 W/400 MHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	8.0 A
$V_{CBO}$	60 V
$V_{CEO}$	30 V
$V_{EBO}$	4.0 V
$P_{DISS}$	220 W @ $T_C = 25$ °C
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	1.25 °C/W


**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 50$ mA		30			V
$BV_{CES}$	$I_C = 50$ mA		60			V
$BV_{EBO}$	$I_E = 10$ mA		4.0			V
$I_{CBO}$	$V_{CB} = 30$ V				5.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V	$I_C = 2.0$ A	20		80	---
$C_{OB}$	$V_{CB} = 28$ V	$f = 1.0$ MHz			80	pF
$P_G$ $\eta_D$	$V_{CC} = 28$ V	$P_{OUT} = 70$ W $f = 400$ MHz	8.4	60		dB %