

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

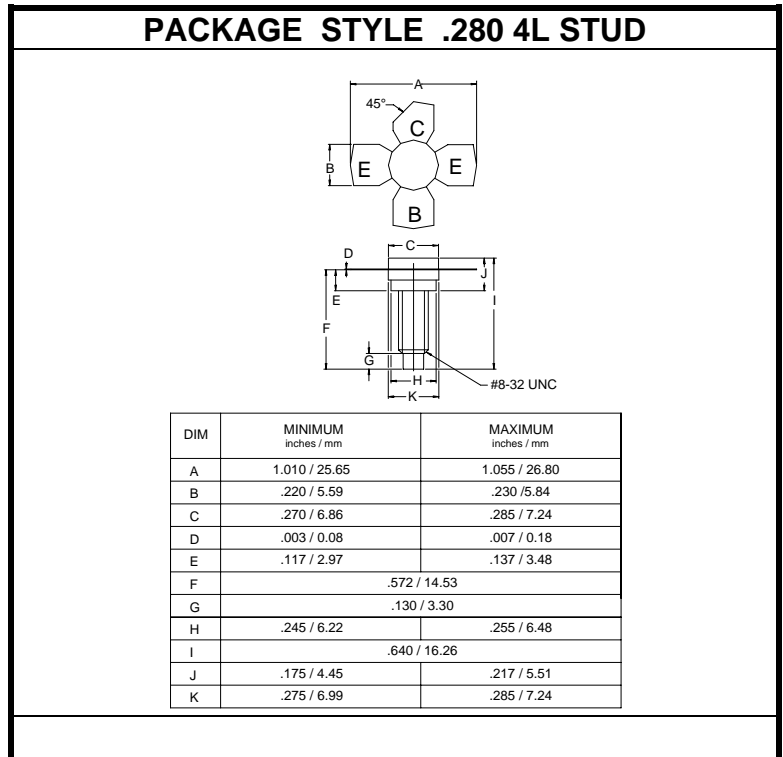
The **ASI MRF5176** is Designed for Class C Amplifiers in 225 to 400 MHz Military Communication Equipment.

**FEATURES:**

- $P_G = 10$  dB Typical at 400 MHz
- Economical .280" Stud Package
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	2.0 A
$V_{CBO}$	60 V
$V_{CEO}$	33 V
$V_{EBO}$	4.0 V
$P_{DISS}$	30 W @ $T_C = 25^\circ\text{C}$
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	6.0 °C/W


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CES}$	$I_C = 50$ mA	60			V
$BV_{CEO}$	$I_C = 50$ mA	33			V
$BV_{EBO}$	$I_E = 5.0$ mA	4.0			V
$I_{CBO}$	$V_{CB} = 30$ V			1.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 500$ mA	10		100	---
$C_{OB}$	$V_{CB} = 30$ V $f = 1.0$ MHz			25	pF
$P_G$ $\eta_D$	$V_{CC} = 28$ V $P_{OUT} = 15$ W $f = 400$ MHz	10 50			dB %