

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

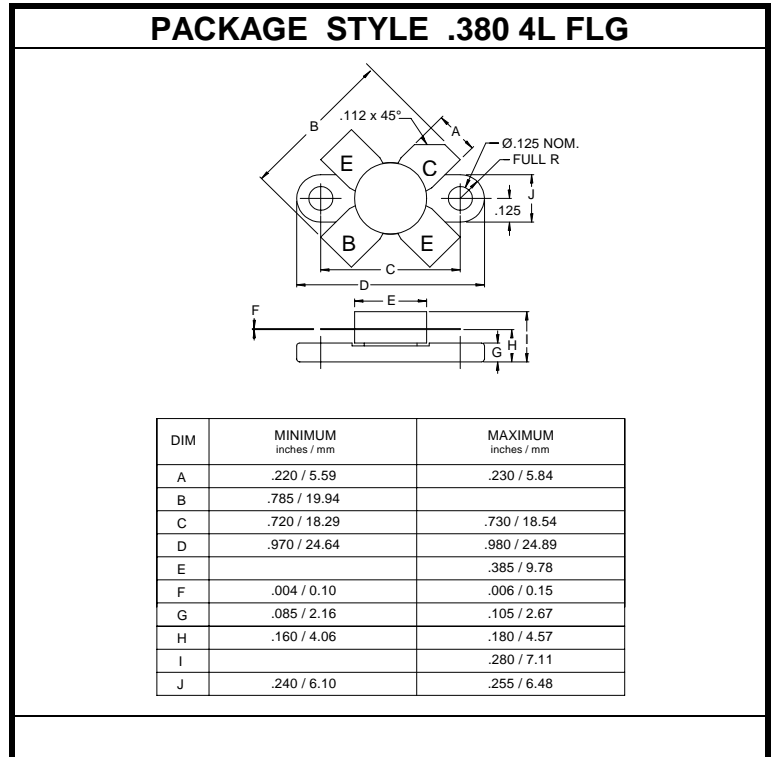
The **ASI MRF240A** is Designed for Class C Amplifier Applications in VHF Mobile Radios.

**FEATURES:**

- $P_G = 9.0$  dB Min. at 40 W /160 MHz
- $\eta_C = 55\%$  Min. at 40 W /160 MHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	8.0 A
$V_{CBO}$	36 V
$V_{CEO}$	18 V
$V_{EBO}$	4.0 V
$P_{DISS}$	100 W @ $T_C = 25$ °C
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	2.9 °C/W


**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CES}$	$I_C = 20$ mA	36			V
$BV_{CEO}$	$I_C = 20$ mA	18			V
$BV_{EBO}$	$I_E = 5.0$ mA	4.0			V
$I_{CBO}$	$V_{CB} = 15$ V			10	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 4.0$ A	10		150	---
$C_{ob}$	$V_{CB} = 12.5$ V $f = 1.0$ MHz			125	pF
$P_G$ $\eta_C$	$V_{CC} = 12.5$ V $P_{OUT} = 40$ W $f = 160$ MHz	9.0 55	10		dB %

# Mouser Electronics

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