

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

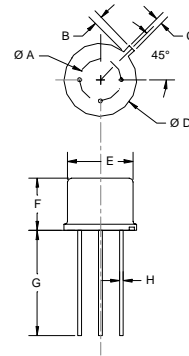
The **ASI UML1T** is Designed for High Power Class C Amplifier in, 225 to 400 MHz Military Communication Equipment.

**FEATURES:**

- Class C Operation
- $P_G = 10$  dB at 1.0 W/400 MHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	0.4 A
$V_{CBO}$	55 V
$V_{CEO}$	30 V
$V_{EBO}$	3.5 V
$P_{DISS}$	5.0 W @ $T_C = 25$ °C
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +200 °C
$\theta_{JC}$	35.0 °C/W

**PACKAGE STYLE TO-39**


DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.200 / 5.080	
B	.029 / 0.740	.045 / 1.140
C	.028 / 0.720	.034 / 0.860
D	.335 / 8.510	.370 / 9.370
E	.305 / 7.750	.335 / 8.500
F	.240 / 6.100	.260 / 6.600
G	.500 / 12.700	
H	.016 / 0.407	.020 / 0.508

**ORDER CODE: ASI10690**
**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 5$ mA	30			V
$BV_{CER}$	$I_C = 5$ mA $R_{BE} = 10$ $\Omega$	55			V
$BV_{CBO}$	$I_C = 0.1$ mA	55			V
$BV_{EBO}$	$I_E = 0.1$ mA	3.5			V
$I_{CEO}$	$V_{CE} = 28$ V			20	$\mu$ A
$I_{CEX}$	$V_C = 55$ V $V_{BE} = -1.5$ V			100	$\mu$ A
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 50$ mA $I_C = 360$ mA	10 5		200 ---	---
$C_{OB}$	$V_{CB} = 28$ V $f = 1.0$ MHz			5.0	pF
$P_{GE}$ $\eta_D$	$V_{CC} = 28$ V $P_{OUT} = 1.0$ W $f = 400$ MHz	10	55		dB %