

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The ASI UML1T is Designed for

FEATURES:

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- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	0.4 A
V_{CB0}	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
θ_{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 Ω	55			V
BV_{CB0}	I _C = 0.1 mA		55			V
BV_{EBO}	I _E = 0.1 mA		3.5			V
I_{CEO}	V _{CE} = 28 V				20	μA
I_{CEX}	V _C = 55 V	V _{BE} = -1.5 V			100	μA
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} η_D	V _{CC} = 28 V	P _{OUT} = 1.0 W f = 400 MHz	10	55		dB %