NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **UML100** is Designed for High Power Class C Amplifiers in 225 to 400 MHz Military Communication Equipment.

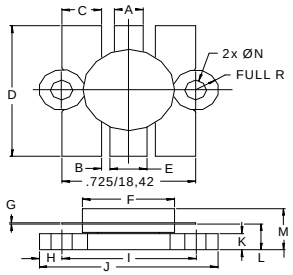
FEATURES:

- **P_G** = 7.5 dB Typical at 400 MHz
- Internal Input Matching Network
- ***Omnigold***™ Metalization System

MAXIMUM RATINGS

I_C	4.0 A
V_{CBO}	60 V
V_{CEO}	33 V
V_{EBO}	4.0 V
P_{DISS}	250 W @ T_C = 25 ^{O}C
T_J	-65 ^{O}C to +200 ^{O}C
T_{STG}	-65 ^{O}C to +150 ^{O}C
θ_{JC}	0.7 ^{O}C/W

PACKAGE STYLE .500 6L FLG



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.150 / 3.43	.160 / 4.06
B	.045 / 1.14	
C	.210 / 5.33	.220 / 5.59
D	.835 / 21.21	.865 / 21.97
E	.200 / 5.08	.210 / 5.33
F	.490 / 12.45	.510 / 12.95
G	.003 / 0.08	.007 / 0.18
H	.125 / 3.18	
I	.725 / 18.42	
J	.970 / 24.64	.980 / 24.89
K	.090 / 2.29	.105 / 2.67
L	.150 / 3.81	.170 / 4.32
M		.285 / 7.24
N	.120 / 3.05	.135 / 3.43

ORDER CODE: ASI10698

CHARACTERISTICS T_C = 25 ^{O}C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	I_C = 100 mA	60			V
BV_{CEO}	I_C = 50 mA	33			V
BV_{EBO}	I_E = 20 mA	4.0			V
I_{CES}	V_{CE} = 28 V			25	mA
h_{FE}	V_{CE} = 5.0 V I_C = 1.0 A	20		200	---
C_{OB}	V_{CB} = 28 V f = 1.0 MHz			115	pF
P_G η_D	V_{CC} = 28 V P_{OUT} = 100 W f = 400 MHz	7.0	 60		dB %

Specifications are subject to change without notice.

ADVANCED SEMICONDUCTOR, INC.

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