

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **AUR 300** is Designed for Class C UHF Radar Applications up to 500 MHz.

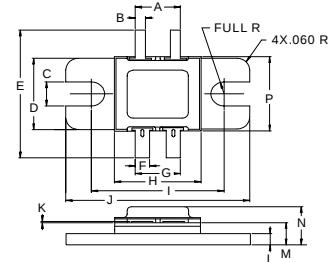
FEATURES:

- Internal Input Matching Network
- $P_G = 9.5$ dB at 300 W/500 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	21.6 A
V_{CBO}	65 V
V_{CES}	65 V
V_{EBO}	3.5 V
P_{DISS}	875 W @ $T_C = 25^\circ\text{C}$
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	0.20 °C/W

PACKAGE STYLE .400 BAL FLG (A)



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.210 / 5.33	.230 / 5.84
B	.045 / 1.14	.055 / 1.40
C	.125 / 3.18	.135 / 3.43
D	.380 / 9.65	.390 / 9.91
E	.770 / 19.56	.830 / 21.08
F	.070 / 1.78	.080 / 2.03
G	.215 / 5.46	.235 / 5.97
H	.420 / 10.67	.430 / 10.92
I	.645 / 16.38	.655 / 16.64
J	.895 / 22.73	.905 / 22.99
K	.002 / 0.05	.006 / 0.15
L	.058 / 1.47	.065 / 1.65
M	.115 / 2.92	.130 / 3.30
N		.230 / 5.84
P	.395 / 10.03	.405 / 10.29

ORDER CODE: ASI10549

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 50$ mA	65			V
BV_{CES}	$I_C = 50$ mA	65			V
BV_{CEO}	$I_C = 50$ mA	28			V
BV_{EBO}	$I_E = 10$ mA	3.5			V
I_{CES}	$V_{CE} = 30$ V			7.5	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 5.0$ A	10		100	---
P_G η_C	$V_{CC} = 40$ V $P_{OUT} = 300$ W $f = 425$ MHz	9.5 55			dB %