

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

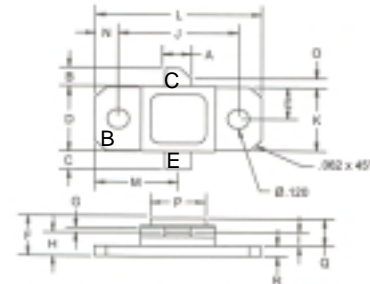
The **ASI PZ1418B15U** is Designed for Class B broadband Amplifiers under CW conditions, in 1.4 to 1.8 GHz Military Equipment.

FEATURES:

- Class B Operation
- $P_G = 7.0$ dB at 12.5 W/1.4-1.8 GHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	2.0 A
V_{CBO}	40 V
V_{CEO}	15 V
V_{EBO}	3.0 V
P_{DISS}	27 W @ $T_C = 25$ °C
T_J	+200 °C Max.
T_{STG}	-65 °C to +150 °C
θ_{JC}	6.8 °C/W

PACKAGE STYLE .400 4L FLG


DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.140 / 3.55	
B	.110 / 2.80	
C	.110 / 2.80	
D	.360 / 9.13	.407 / 10.34
E	.190 / 4.80	
F		.230 / 5.84
G	.003 / 0.08	.008 / 0.15
H	.110 / 3.05	.121 / 3.10
I	.060 / 1.50	
J	.050 / 1.27	
K	.300 / 7.62	
L	.900 / 22.86	
M	.450 / 11.43	
N	.125 / 3.18	
Q	.050 / 1.27	
P	.495 / 12.57	
R	.170 / 4.32	
R	.062 / 1.58	

CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 5.0$ mA	40			V
BV_{CEO}	$I_C = 20$ mA	15			V
BV_{EBO}	$I_E = 0.25$ mA	3.0			V
I_{CBO}	$V_{CB} = 30$ V $V_{CB} = 40$ V			2.5 5.0	mA
I_{CES}	$V_{CE} = 35$ V			25	mA
I_{EBO}	$V_{EB} = 1.5$ V			100	μA
P_G	$V_{CC} = 28$ V $P_{OUT} = 12.5$ W $f = 400$ MHz	7.0	7.8		dB
η_c		38	45		%

