

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI PT9732** is a common Emitter transistor, designed for broadband amplifier operations in military, commercial and amateur communication equipment.

FEATURES:

- $P_G = 12$ dB min.
- $P_{OUT} = 10$ W
- 28 V, 175 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	1.25 A
V_{CES}	65 V
V_{CEO}	35 V
V_{EBO}	4.0 V
P_{DISS}	20 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	8.0 °C/W

PACKAGE STYLE .380 4L FLG

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.785 / 19.94	
C	.720 / 18.29	.730 / 18.54
D	.970 / 24.64	.980 / 24.89
E		.385 / 9.78
F	.004 / 0.10	.006 / 0.15
G	.085 / 2.16	.105 / 2.67
H	.160 / 4.06	.180 / 4.57
I		.280 / 7.11
J	.240 / 6.10	.255 / 6.48

CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 25$ mA	35			V
BV_{CES}	$I_C = 50$ mA	60			V
BV_{EBO}	$I_E = 1.0$ mA	4.0			V
I_{CES}	$V_{CE} = 25$ V			1.0	mA
h_{FE}	$V_{CE} = 10$ V $I_C = 500$ mA	20		150	---
C_{OB}	$V_{CB} = 28$ V $f = 1.0$ MHz			18	pF
G_P	$V_{CE} = 28$ V $P_{IN} = 1.0$ W $f = 150$ MHz	12		---	dB
η		60			%
P_{SAT}		10			W