

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **C3-28** is Designed for Class A, B and C Power Amplifier Applications Up to 500 MHz.

FEATURES:

- $P_G = 13$ dB Typ. at 3.0 W/400 MHz
- Emitter Ballasting for Ruggedness
- **Omnigold™** Metallization System

MAXIMUM RATINGS

I_C	1.0 A
V_{CB}	45 V
P_{DISS}	12 W @ $T_C = 25^\circ C$
T_J	-65 to +200 $^\circ C$
T_{STG}	-65 to +150 $^\circ C$
θ_{JC}	15 $^\circ C/W$

PACKAGE STYLE .280 4L STUD

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	1.010 / 25.65	1.055 / 26.80
B	.220 / 5.59	.230 / 5.84
C	.270 / 6.86	.285 / 7.24
D	.003 / 0.08	.007 / 0.18
E	.117 / 2.97	.137 / 3.48
F	.572 / 14.53	
G	.130 / 3.30	
H	.245 / 6.22	.255 / 6.48
I	.640 / 16.26	
J	.175 / 4.45	.217 / 5.51
K	.275 / 6.99	.285 / 7.24

ORDER CODE: ASI10810

CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 5$ mA	45			V
BV_{CER}	$I_C = 20$ mA $R_{BE} = 10 \Omega$	45			V
BV_{EBO}	$I_E = 5$ mA	3.5			V
I_{CBO}	$V_{CE} = 28$ V			500	μA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 100$ mA	15		150	---
F_t	$V_{CE} = 20$ V $I_C = 100$ mA	600			MHz
C_{ob}	$V_{CB} = 28$ V $f = 1.0$ MHz			7.0	pF
P_G	$V_{CE} = 28$ V $P_{OUT} = 3.0$ W $f = 400$ MHz	12	13		dB
η_C		50	60		%