

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **D1-28Z** is Designed for General Purpose Class C Amplifier Applications up to 1.0 GHz.

**FEATURES:**

- $P_G = 8.0$  dB Typ. at 1 W/1,000 MHz
- Emitter Ballasting for Ruggedness
- **Omnigold™** Metallization System

**MAXIMUM RATINGS**

$I_C$	1.0 A
$V_{CB}$	45 V
$P_{DISS}$	7 W @ $T_C = 25^\circ C$
$T_J$	-65 to +200 $^\circ C$
$T_{STG}$	-65 to +150 $^\circ C$
$q_{JC}$	25 $^\circ C/W$

**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: ASI10807**

**CHARACTERISTICS**  $T_C = 25^\circ C$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 1$ mA	45			V
$BV_{CER}$	$I_C = 20$ mA $R_{BE} = 10 \Omega$	45			V
$BV_{EBO}$	$I_E = 1$ mA	3.5			V
$I_{CBO}$	$V_{CE} = 28$ V			250	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 100$ mA	15		150	---
$C_{ob}$	$V_{CB} = 28$ V $f = 1.0$ MHz			5.0	pF
$P_G$	$V_{CE} = 28$ V $P_{OUT} = 1.0$ W $f = 1,000$ MHz	7.0	8.0		dB
$h_C$		65			%