

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

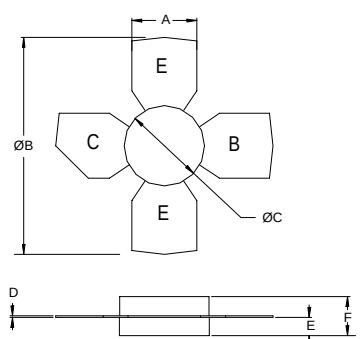
The **C1-12** is Designed for 12.5 Volt supply. Applications from 450 to 512 MHz.

FEATURES:

- $P_G = 11$ dB Typ. at 1.1 W/470 MHz
- $\eta_c = 65$ % Typ. at 1.1 W/470 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	250 mA
V_{CBO}	36 V
V_{CEO}	28 V
V_{EBO}	4.0 V
P_{DISS}	5.0 W @ $T_C = 25^\circ C$
T_J	$-65^\circ C$ to $+200^\circ C$
T_{STG}	$-65^\circ C$ to $+150^\circ C$
θ_{JC}	35 $^\circ C/W$

PACKAGE STYLE .280 4L PILL		
		
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B		1.055 / 26.80
C	.275 / 6.99	.285 / 7.24
D	.004 / 0.10	.006 / 0.15
E	.050 / 1.27	.060 / 1.52
F	.118 / 3.00	.130 / 3.30
ORDER CODE: ASI		

CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 5.0$ mA		14.5			V
BV_{CES}	$I_C = 5.0$ mA		37			V
BV_{EBO}	$I_E = 5.0$ mA		4.0			V
h_{FE}	$V_{CE} = 6.0$ V	$I_C = 100$ mA	10		100	---
C_{OB}	$V_{CB} = 12$ V	$f = 1.0$ MHz		3.0		pF
P_G η_c	$V_{CE} = 12.5$ V Pin = 0.1 W	$P_{OUT} = 1.1$ W $f = 470$ MHz		11 65		dB %