

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI SD1274-01** is Designed for Class C, 12.5 V High Band Applications up to 175 MHz.

**FEATURES:**

- Common Emitter
- $P_G = 10$  dB at 25 W/175 MHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	4.0 A
$V_{CBO}$	36 V
$V_{CEO}$	18 V
$V_{EBO}$	4.0 V
$P_{DISS}$	65 W @ $T_C = 25$ °C
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	3.5 °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
$BV_{CEO}$	$I_C = 50$ mA	18			V
$BV_{CES}$	$I_C = 15$ mA	36			V
$BV_{EBO}$	$I_E = 5.0$ mA	4.0			V
$I_{CBO}$	$V_{CB} = 15$ V			5.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 250$ mA	20		---	---
$C_{OB}$	$V_{CB} = 12.5$ V $f = 1.0$ MHz			110	pF
$P_G$ $\eta_C$	$V_{CE} = 12.5$ V $P_{OUT} = 25$ W $f = 175$ MHz	10	60		dB %

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