

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI CBSL15** is Designed for Class AB, Cellular Base Station Applications up to 960 MHz.

FEATURES:

- Internal Input Matching Network
- $P_G = 8.0$ dB at 15 W/960 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	2.5 A
V_{CBO}	48 V
V_{CEO}	30 V
V_{EBO}	4.0 V
P_{DISS}	29 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	6.0 °C/W

PACKAGE STYLE .230 6L FLG

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.355 / 9.02	.365 / 9.27
B	.115 / 2.92	.125 / 3.18
C	.075 / 1.91	.085 / 2.16
D	.225 / 5.72	.235 / 5.97
E	.090 / 2.29	.110 / 2.79
F	.720 / 18.29	.730 / 18.54
G	.970 / 24.64	.980 / 24.89
H	.355 / 9.02	.365 / 9.27
I	.004 / 0.10	.006 / 0.15
J	.120 / 3.05	.130 / 3.30
K	.160 / 4.06	.180 / 4.57
L	.230 / 5.84	.260 / 6.60

ORDER CODE: ASI10581

CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 50$ mA	48			V
BV_{CEO}	$I_C = 20$ mA	25			V
BV_{EBO}	$I_E = 5$ mA	3.5	4.0	---	V
I_{CBO}	$V_{CB} = 24$ V			1.0	mA
h_{FE}	$V_{CE} = 10$ V $I_C = 100$ mA	20		100	---
C_{OB}	$V_{CB} = 24$ V $f = 1.0$ MHz			25	pF
P_G	$V_{CC} = 24$ V $I_{CQ} = 75$ mA $f = 960$ MHz	8.0			dB
η_C	$P_{OUT} = 15$ W		50		%