

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The ASI CBSL6 is Designed for

FEATURES:

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- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	2.4 A
V_{CB0}	50 V
V_{CES}	35 V
V_{EBO}	3.5 V
P_{DISS}	53 W @ T _C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	3.3 °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: ASI10580

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	I _C = 5 mA	24			V
BV_{CB0}	I _C = 5 mA	50			V
BV_{EBO}	I _E = 5 mA	3.5			V
I_{CEO}	V _{CE} = 24 V			1.0	mA
I_{CB0}	V _{CB} = 24 V			1.0	mA
h_{FE}	V _{CE} = 10 V I _C = 0.1 A	20		100	---
C_{OB}	V _{CB} = 24 V f = 1.0 MHz			8.5	pF
P_G η_C	V _{CC} = 24 V I _{CQ} = 25 mA f = 960 MHz P _{OUT} = 6.0 W	10	50	---	dB %