CMPT3019

SURFACE MOUNT NPN SILICON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPT3019 type is an NPN silicon transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for very high current, general purpose amplifier applications.

MARKING CODE: C3A



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	140	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	7.0	V
Continuous Collector Current	l _C	500	mA
Peak Collector Current	I _{CM}	1.0	Α
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25 \ ^{\circ}\mbox{C unless otherwise noted})$

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =90V		10	nA
I _{EBO}	V _{EB} =5.0V		10	nA
BV_{CBO}	I _C =100μA	140		V
BV CEO	I _C =30mA	80		V
BV _{EBO}	I _E =100μA	7.0		V
V _{CE(SAT)}	I _C =150mA, I _B =15mA		0.2	V
V _{CE} (SAT)	I _C =500mA, I _B =50mA		0.5	V
V _{BE(SAT)}	I _C =150mA, I _B =15mA		1.1	V
h _{FE} ` ′	V_{CE} =10V, I_{C} =0.1mA	50		
h _{FE}	V _{CE} =10V, I _C =10mA	90		
h _{FE}	V _{CE} =10V, I _C =150mA	100	300	
h _{FE}	V_{CE} =10V, I_{C} =500mA	50		
f_{T}	V_{CE} =10V, I_{C} =50mA, f=20MHz	100	400	MHz
C _{ob}	V_{CB} =10V, I_E =0, f=1.0MHz		12	pF
C _{ib}	V_{EB} =0.5V, I_{C} =0, f=1.0MHz		60	pF
NF	V _{CE} =10V, I _C =100μA,			
	R _S =1.0kΩ, f=1.0kHz		4.0	dB

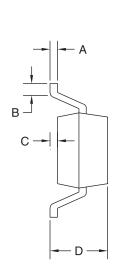
R4 (9-November 2010)

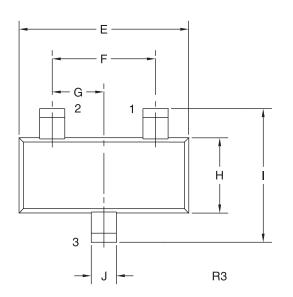
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SURFACE MOUNT NPN SILICON TRANSISTOR



SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Base 2) Emitter 3) Collector

MARKING CODE: C3A

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
Е	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
I	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (REV: R3)

R4 (9-November 2010)

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