CMPTA96

SURFACE MOUNT EXTREMELY HIGH VOLTAGE PNP SILICON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPTA96 type is a surface mount epoxy molded PNP silicon planar epitaxial transistor designed for extremely high voltage applications.

MARKING CODE: C96



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	450	V
Collector-Emitter Voltage	V_{CEO}	450	V
Emitter-Base Voltage	V_{EBO}	6.0	V
Continuous Collector Current	$I_{\mathbb{C}}$	500	mA
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

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

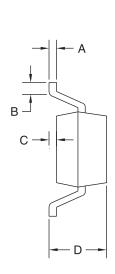
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)						
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
I _{CBO}	V _{CB} =400V			100	nA	
I _{EBO}	V _{BE} =4.0V			100	nA	
BV _{CBO}	I _C =100μA	450	500		V	
BVCEO	I _C =1.0mA	450	490		V	
BVEBO	I _E =10μA	6.0	9.7		V	
VCE(SAT)	I _C =1.0mA, I _B =0.1mA			0.20	V	
VCE(SAT)	I _C =10mA, I _B =1.0mA			0.30	V	
VCE(SAT)	I _C =50mA, I _B =5.0mA		0.15	0.50	V	
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA			1.0	V	
h _{FE}	V_{CE} =10V, I_{C} =1.0mA	40				
h _{FE}	V _{CE} =10V, I _C =10mA	50	120	200		
hFE	V _{CE} =10V, I _C =50mA	45				
h _{FE}	V_{CE} =10V, I_{C} =100mA	25	35			
f _T	V_{CE} =10V, I_{C} =10mA, f=10MHz	20			MHz	
C _{ob}	V_{CB} =20V, I_E =0, f=1.0MHz			7.0	pF	
C _{ib}	V_{EB} =0.5V, I_{C} =0, f=1.0MHz			130	pF	

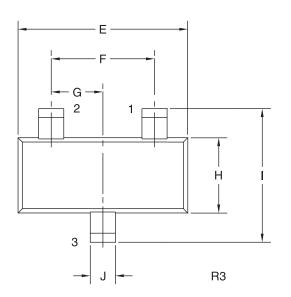
CMPTA96

SURFACE MOUNT **EXTREMELY HIGH VOLTAGE** PNP SILICON TRANSISTOR



SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Base 2) Emitter 3) Collector

MARKING CODE: C96

DIM	ENIOLONI							
	DIMENSIONS							
INCHES		MILLIMETERS						
MIN	MAX	MIN	MAX					
0.003	0.007	0.08	0.18					
0.006	-	0.15	-					
-	0.005	-	0.13					
0.035	0.043	0.89	1.09					
0.110	0.120	2.80	3.05					
0.075		1.90						
0.037		0.95						
0.047	0.055	1.19	1.40					
0.083	0.098	2.10	2.49					
0.014	0.020	0.35	0.50					
	MIN 0.003 0.006 - 0.035 0.110 0.0 0.047 0.083	MIN MAX 0.003 0.007 0.006 0.005 0.035 0.043 0.110 0.120 0.075 0.037 0.047 0.055 0.083 0.098	MIN MAX MIN 0.003 0.007 0.08 0.006 - 0.15 - 0.005 - 0.035 0.043 0.89 0.110 0.120 2.80 0.075 1. 0.037 0. 0.047 0.055 1.19 0.083 0.098 2.10					

SOT-23 (REV: R3)

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