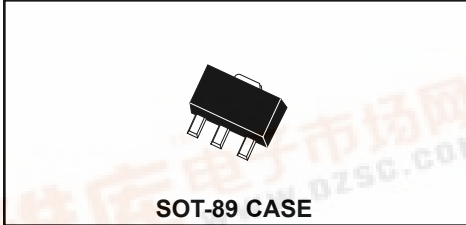


CXT5551
SURFACE MOUNT
NPN SILICON TRANSISTORS



CentralTM

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CXT5551 type is an NPN silicon transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for high voltage amplifier applications.

MAXIMUM RATINGS (T_A=25°C)

Collector-Base Voltage
 Collector-Emitter Voltage
 Emitter-Base Voltage
 Collector Current
 Power Dissipation
 Operating and Storage
 Junction Temperature
 Thermal Resistance

SYMBOL		UNITS
V _{CB0}	180	V
V _{CEO}	160	V
V _{EBO}	6.0	V
I _C	600	mA
P _D	1.2	W
T _J , T _{stg}	-65 to +150	°C
θ _{JA}	104	°C/W

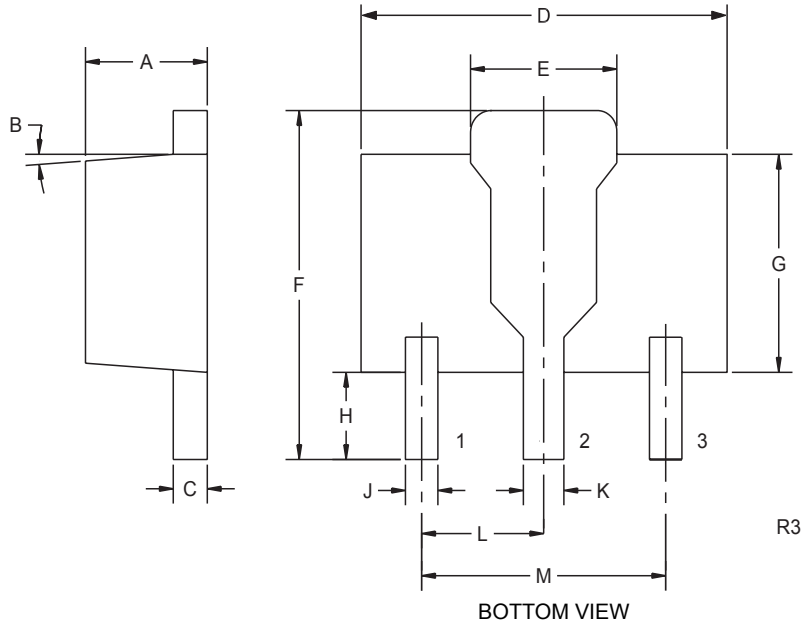
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CB0}	V _{CB} =120V		50	nA
I _{CB0}	V _{CB} =120V, T _A =100°C		50	μA
I _{EBO}	V _{EB} =4.0V		50	nA
BV _{CB0}	I _C =100μA	180		V
BV _{CEO}	I _C =1.0mA	160		V
BV _{EBO}	I _E =10μA	6.0		V
V _{CE(SAT)}	I _C =10mA, I _B =1.0mA		0.15	V
V _{CE(SAT)}	I _C =50mA, I _B =5.0mA		0.20	V
V _{BE(SAT)}	I _C =10mA, I _B =1.0mA		1.00	V
V _{BE(SAT)}	I _C =50mA, I _B =5.0mA		1.00	V
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	80		
h _{FE}	V _{CE} =5.0V, I _C =10mA	80	250	
h _{FE}	V _{CE} =5.0V, I _C =50mA	30		
f _T	V _{CE} =10V, I _C =10mA, f=100MHz	100	300	MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		6.0	pF
h _{fe}	V _{CE} =10V, I _C =1.0mA, f=1.0kHz	50	200	
NF	V _{CE} =5.0V, I _C =200μA, R _S =10Ω f=10Hz to 15.7kHz		8.0	dB

R3 (20-December 2001)

**SURFACE MOUNT
NPN SILICON TRANSISTORS**

SOT-89 CASE - MECHANICAL OUTLINE



- LEAD CODE:**
 1) EMITTER
 2) COLLECTOR
 3) BASE

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.055	0.067	1.40	1.70
B	4°		4°	
C	0.016	0.018	0.40	0.46
D	0.173	0.185	4.40	4.70
E	0.070	0.074	1.79	1.87
F	0.146	0.177	3.70	4.50
G	0.094	0.106	2.40	2.70
H	0.028	0.051	0.70	1.30
J	0.015	0.019	0.38	0.48
K	0.019	0.023	0.48	0.58
L	0.059		1.50	
M	0.118		3.00	

SOT-89 (REV: R3)