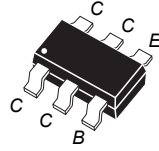


CMXT7090L

**SURFACE MOUNT
LOW VCE SAT
PNP POWER TRANSISTOR**



SOT-26 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMXT7090L is a Low $V_{CE(SAT)}$ PNP Transistor in a six lead Power SOT-26 surface mount package, designed for LAN cards, motor control, power management, strobe flash units and DC-DC converters for mobile systems.

Marking code is X709L.

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

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

SYMBOL

V_{CBO} 50
 V_{CEO} 40
 V_{EBO} 5.0
 I_C 3.0
 I_{CM} 6.0
 P_D 350

UNITS

V
V
V
A
A
mW

 T_J, T_{stg} -65 to +150
 θ_{JA} 357
°C
°C/W

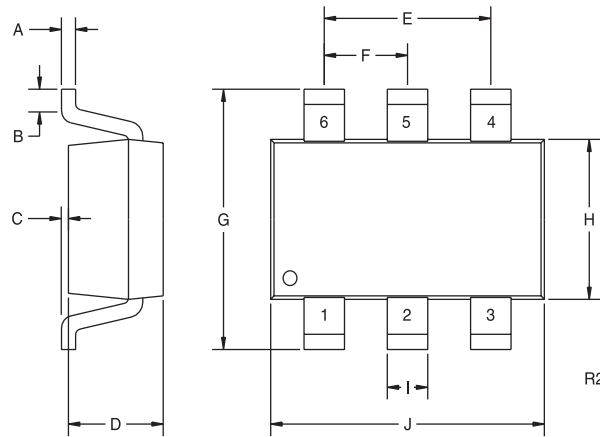
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{CBO}	$V_{CB}=30V$			100	nA
I_{CBO}	$V_{CB}=30V, T_A=100^\circ\text{C}$			10	μA
I_{EBO}	$V_{EB}=4.0V$			100	nA
BV_{CBO}	$I_C=100\mu\text{A}$	50			V
BV_{CEO}	$I_C=10\text{mA}$	40			V
BV_{EBO}	$I_E=100\mu\text{A}$	5.0			V
$V_{CE(SAT)}$	$I_C=500\text{mA}, I_B=5.0\text{mA}$		100	250	mV
$V_{CE(SAT)}$	$I_C=1.0\text{A}, I_B=10\text{mA}$		175	450	mV
$V_{CE(SAT)}$	$I_C=2.0\text{A}, I_B=50\text{mA}$		250	750	mV
$V_{BE(SAT)}$	$I_C=1.0\text{A}, I_B=10\text{mA}$		0.8	1.0	V
h_{FE}	$V_{CE}=2.0V, I_C=10\text{mA}$	300		800	
h_{FE}	$V_{CE}=2.0V, I_C=500\text{mA}$	250			
h_{FE}	$V_{CE}=2.0V, I_C=1.0\text{A}$	200			
h_{FE}	$V_{CE}=2.0V, I_C=2.0\text{A}$	150			
f_T	$V_{CE}=5V, I_C=50\text{mA}, f=50\text{MHz}$	100			MHz

R0 (03-January 2002)

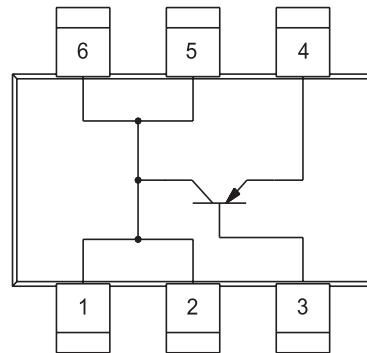
**SURFACE MOUNT
LOW VCE SAT
PNP POWER TRANSISTOR**

SOT-26 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.11	0.19
B	0.016	-	0.40	-
C	-	0.004	-	0.10
D	0.039	0.047	1.00	1.20
E	0.074	0.075	1.88	1.92
F	0.037	0.038	0.93	0.97
G	0.102	0.118	2.60	3.00
H	0.059	0.067	1.50	1.70
I	0.016		0.41	
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)



LEAD CODE:

- 1) Collector
- 2) Collector
- 3) Base
- 4) Emitter
- 5) Collector
- 6) Collector

Pins 1, 2, 5 and 6 are common.