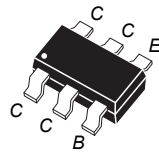


CMXT7090L

**SURFACE MOUNT
LOW V_{CE} 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°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		UNITS
V _{CB0}	50	V
V _{CEO}	40	V
V _{EBO}	5.0	V
I _C	3.0	A
I _{CM}	6.0	A
P _D	350	mW
T _J , T _{stg}	-65 to +150	°C
θ _{JA}	357	°C/W

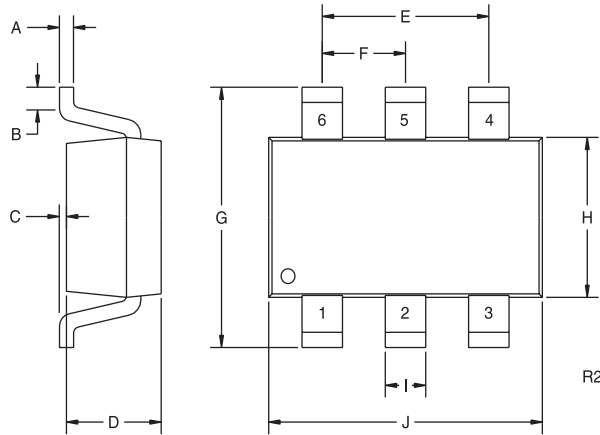
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{CB0}	V _{CB} =30V			100	nA
I _{CB0}	V _{CB} =30V, T _A =100°C			10	µA
I _{EBO}	V _{EB} =4.0V			100	nA
BV _{CB0}	I _C =100µA	50			V
BV _{CEO}	I _C =10mA	40			V
BV _{EBO}	I _E =100µA	5.0			V
V _{CE} (SAT)	I _C =500mA, I _B =5.0mA		100	250	mV
V _{CE} (SAT)	I _C =1.0A, I _B =10mA		175	450	mV
V _{CE} (SAT)	I _C =2.0A, I _B =50mA		250	750	mV
V _{BE} (SAT)	I _C =1.0A, I _B =10mA		0.8	1.0	V
h _{FE}	V _{CE} =2.0V, I _C =10mA	300		800	
h _{FE}	V _{CE} =2.0V, I _C =500mA	250			
h _{FE}	V _{CE} =2.0V, I _C =1.0A	200			
h _{FE}	V _{CE} =2.0V, I _C =2.0A	150			
f _T	V _{CE} =5V, I _C =50mA, f=50MHz	100			MHz

R0 (03-January 2002)

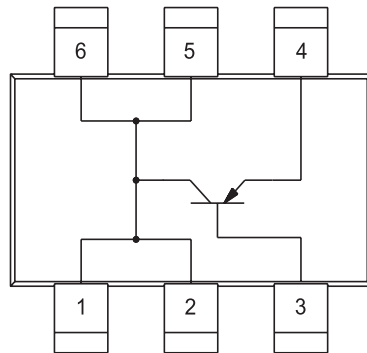
**SURFACE MOUNT
LOW VCE SAT
PNP POWER TRANSISTOR**

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.



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