CXT2907A

SURFACE MOUNT PNP SILICON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CXT2907A type is a PNP silicon transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for small signal general purpose and switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	IC	600	mA
Power Dissipation	P_{D}	1.2	W
Operating and Storage Junction Temperature	$T_{J,} T_{stg}$	-65 to +150	°C
Thermal Resistance	Θ.JA	104	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =50V		10	nA
I _{CBO}	V _{CB} =50V, T _A =125°C		10	μΑ
ICEV	V_{CE} =30V, V_{BE} =0.5V		50	nA
BV _{CBO}	I _C =10μA	60		V
BV _{CEO}	I _C =10mA	60		V
BVEBO	I _E =10μA	5.0		V
V _{CE(SAT)}	I_C =150mA, I_B =15mA		0.4	V
V _{CE(SAT)}	I_C =500mA, I_B =50mA		1.6	V
V _{BE} (SAT)	I_C =150mA, I_B =15mA		1.3	V
V _{BE(SAT)}	I_C =500mA, I_B =50mA		2.6	V
h _{FE}	V_{CE} =10V, I_{C} =0.1mA	75		
h _{FE}	V_{CE} =10V, I_{C} =1.0mA	100		
h _{FE}	V_{CE} =10V, I_{C} =10mA	100		
h _{FE}	V_{CE} =10V, I_{C} =150mA	100	300	

CXT2907A

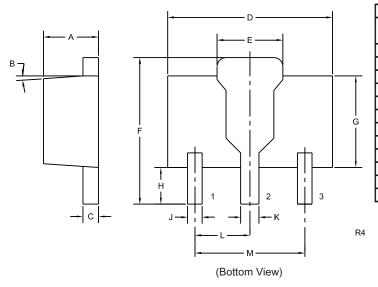


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$\textbf{ELECTRICAL CHARACTERISTICS - Continued:} \ (T_A = 25 ^{\circ}\text{C unless otherwise noted})$

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
h _{FE}	V _{CE} =10V, I _C =500mA	50		
f_{T}	V_{CE} =20V, I_{C} =50mA, f=100MHz	200		MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		8.0	pF
C _{ib}	V_{BE} =2.0V, I_{C} =0, f=1.0MHz		30	pF
ton	V_{CC} =30V, V_{BE} =0.5, I_{C} =150mA, I_{B1} =15mA		45	ns
t_d	V_{CC} =30V, V_{BE} =0.5, I_{C} =150mA, I_{B1} =15mA		10	ns
t _r	V_{CC} =30V, V_{BE} =0.5, I_{C} =150mA, I_{B1} =15mA		40	ns
toff	V_{CC} =6.0V, I_{C} =150mA, I_{B1} = I_{B2} =15mA		100	ns
t _s	V_{CC} =6.0V, I_{C} =150mA, I_{B1} = I_{B2} =15mA		80	ns
t _f	V_{CC} =6.0V, I_{C} =150mA, I_{B1} = I_{B2} =15mA		30	ns

SOT-89 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.055	0.067	1.40	1.70
В	4°		4°	
С	0.014	0.018	0.35	0.46
D	0.173	0.185	4.40	4.70
Е	0.064	0.074	1.62	1.87
F	0.146	0.177	3.70	4.50
G	0.090	0.106	2.29	2.70
Н	0.028	0.051	0.70	1.30
J	0.014	0.019	0.36	0.48
K	0.017	0.023	0.44	0.58
Ĺ	0.059		1.50	
М	0.118		3.00	
00T 00 (DEV D4)				

SOT-89 (REV: R4)

LEAD CODE:

- 1) Emitter
- 2) Collector
- 3) Base

MARKING:

FULL PART NUMBER

R7 (23-February 2010)

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CONTACT US

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