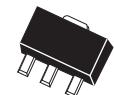


CXT3410 NPN
CXT7410 PNP

SURFACE MOUNT
COMPLEMENTARY SILICON
LOW V_{CE(SAT)} TRANSISTORS



SOT-89 CASE

FEATURES:

- Low Saturation Voltage
V_{CE(SAT)} = 275mV (typ.) @ I_C = 1.0A
- High Current (1.0A Max)
- Low Voltage (40V Max)
- SOT-89 Surface Mount Package

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Collector Current	I _C	1.0	A
Collector Current (Peak)	I _{CM}	1.5	A
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

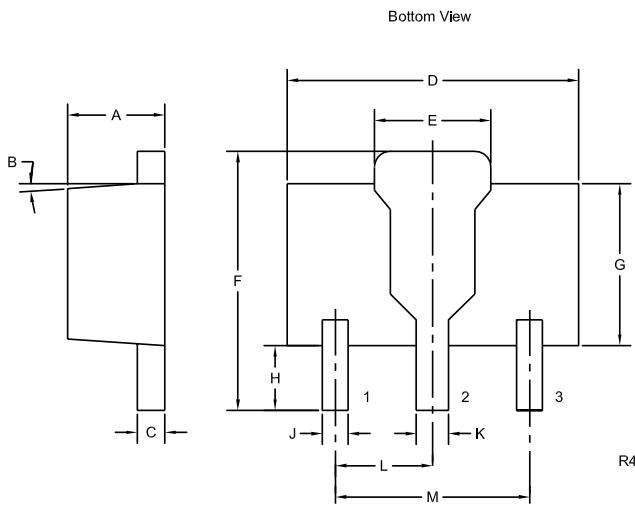
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	CXT3410	CXT7410	MAX	UNITS
I _{CBO}	V _{CB} =40V				100	nA
I _{EBO}	V _{EB} =6.0V				100	nA
BV _{CBO}	I _C =100μA	40				V
BV _{CEO}	I _C =10mA	25				V
BV _{EBO}	I _E =100μA	6.0				V
V _{CE(SAT)}	I _C =50mA, I _B =5.0mA		20	25	50	mV
V _{CE(SAT)}	I _C =100mA, I _B =10mA		35	40	75	mV
V _{CE(SAT)}	I _C =200mA, I _B =20mA		75	80	150	mV
V _{CE(SAT)}	I _C =500mA, I _B =50mA		130	150	250	mV
V _{CE(SAT)}	I _C =800mA, I _B =80mA		200	220	400	mV
V _{CE(SAT)}	I _C =1.0A, I _B =100mA		250	275	450	mV

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V _{BE(SAT)}	I _C =800mA, I _B =80mA		1.1	V
V _{BE(ON)}	V _{CE} =1.0V, I _C =10mA		0.9	V
h _{FE}	V _{CE} =1.0V, I _C =10mA	100		
h _{FE}	V _{CE} =1.0V, I _C =100mA	100	300	
h _{FE}	V _{CE} =1.0V, I _C =500mA	100		
h _{FE}	V _{CE} =1.0V, I _C =1.0A	50		
f _T	V _{CE} =10V, I _C =50mA, f=100MHz	100		MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz (CXT3410)	10		pF
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz (CXT7410)	15		pF

SOT-89 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.055	0.067	1.40	1.70
B	4°		4°	
C	0.014	0.018	0.35	0.46
D	0.173	0.185	4.40	4.70
E	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
H	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
L	0.059		1.50	
M	0.118		3.00	

SOT-89 (REV: R4)

LEAD CODE:

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