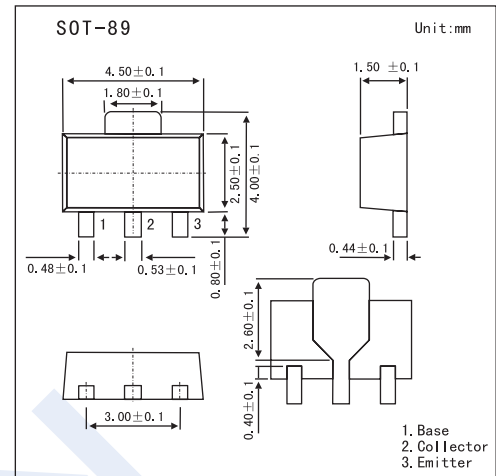


Surface Mount PNP Switching Transistor

CXT2907A

■ Features

- High current (max.600mA)
- Low voltage (max.60V)



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-60	V
Collector-emitter voltage	V _{CE0}	-60	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current (DC)	I _C	-600	mA
Power dissipation	P _D	1.2	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	104	°C/W

CXT2907A

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base cut-off current	I_{CBO}	$I_E = 0; V_{CB} = -50\text{ V}$			-10	nA
		$I_E = 0; V_{CB} = -50\text{ V}; T_j = 125^\circ\text{C}$			-10	μA
Emitter-base cut-off current	I_{EBO}	$I_C = 0; V_{EB} = -5\text{ V}$			-50	nA
DC current gain	h_{FE}	$I_C = -0.1\text{ mA}; V_{CE} = -10\text{ V}$	75			
		$I_C = -1\text{ mA}; V_{CE} = -10\text{ V}$	100			
		$I_C = -10\text{ mA}; V_{CE} = -10\text{ V}$	100			
		$I_C = -150\text{ mA}; V_{CE} = -10\text{ V}$	100		300	
		$I_C = -500\text{ mA}; V_{CE} = -10\text{ V}$	50			
Collector-emitter saturation voltage	V_{CEsat}	$I_C = -150\text{ mA}; I_B = -15\text{ mA}$			-0.4	V
		$I_C = -500\text{ mA}; I_B = -50\text{ mA}$			-1.6	V
Base-emitter saturation voltage	V_{BEsat}	$I_C = -150\text{ mA}; I_B = -15\text{ mA}$			-1.3	V
		$I_C = -500\text{ mA}; I_B = -50\text{ mA}$			-2.6	V
Turn-on time	t_{on}	$V_{CC}=30\text{V}, V_{BE}=-0.5\text{V}, I_C=-150\text{mA}, I_{B1}=-15\text{mA}$			45	ns
Delay time	t_d				10	ns
Rise time	t_r				40	ns
Turn-off time	t_{off}	$V_{CC}=-6.0\text{V}, I_C=-150\text{mA}, I_{B1}=I_{B2}=-15\text{mA}$			100	ns
Storage time	t_s				80	ns
Fall time	t_f				30	ns
Transition frequency	f_T	$I_C = -50\text{ mA}; V_{CE} = -20\text{ V}; f = 100\text{ MHz}$	200			MHz

■ Marking

Marking	2907A
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CXT2907A

Typical Characteristics

