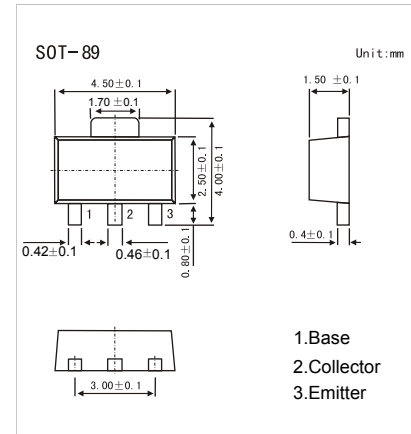


PNP Transistors

PXT2907A (KXT2907A)

■ Features

- Switching and Linear Amplification
- High Current and Low Voltage
- Complement to PXT2222A



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-60	V
Collector - Emitter Voltage	V_{CEO}	-60	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-600	mA
Collector Power Dissipation	P_C	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -1\text{ mA}, I_E = 0$	-60			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -10\text{ mA}, I_B = 0$	-60			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -1\text{ mA}, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -50\text{ V}, I_E = 0$			-50	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$			-50	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{ mA}, I_B = -50\text{ mA}$			-1.6	V
		$I_C = -500\text{ mA}, I_B = -15\text{ mA}$			-0.4	
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500\text{ mA}, I_B = -50\text{ mA}$			-2.6	
		$I_C = -500\text{ mA}, I_B = -15\text{ mA}$			-1.3	
DC current gain	$h_{FE(1)}$	$V_{CE} = -10\text{ V}, I_C = -0.1\text{ mA}$	75			
	$h_{FE(2)}$	$V_{CE} = -10\text{ V}, I_C = -1\text{ mA}$	100			
	$h_{FE(3)}$	$V_{CE} = -10\text{ V}, I_C = -10\text{ mA}$	100			
	$h_{FE(4)}$	$V_{CE} = -10\text{ V}, I_C = -150\text{ mA}$	100		300	
	$h_{FE(5)}$	$V_{CE} = -10\text{ V}, I_C = -500\text{ mA}$	50			
Delay time	t_d	$V_{CC} = -30\text{ V}, I_C = -150\text{ mA}$ $I_{B1} = -I_{B2} = -15\text{ mA}$			12	ns
Rise time	t_r				30	
Storage time	t_s				300	
Fall time	t_f				65	
Transition frequency	f_T	$V_{CE} = -10\text{ V}, I_C = -20\text{ mA}, f = 100\text{ MHz}$	200			MHz

■ Marking

Marking	*2F
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