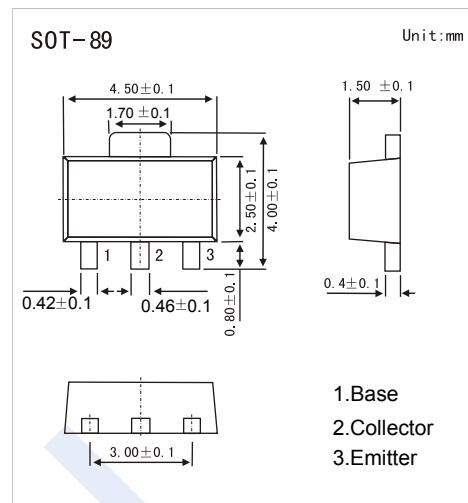


NPN Transistors**BCX68 (KCX68)****■ Features**

- Collector Current Capability $I_c = 1A$
- Collector Emitter Voltage $V_{CEO} = 20V$
- High gain and low saturation voltages

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	25	V
Collector - Emitter Voltage	V_{CEO}	20	
Emitter - Base Voltage	V_{EBO}	5	
Collector Current - Continuous	I_c	1	A
Collector Current - Pulse	I_p	2	
Collector Power Dissipation	P_c	1	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-65 to 150	

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_c = 100 \mu A, I_E = 0$	25			V
Collector-emitter breakdown voltage	V_{CEO}	$I_c = 10 mA, I_B = 0$	20			
Emitter-base breakdown voltage	V_{EBO}	$I_E = 100 \mu A, I_C = 0$	5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = 25 V, I_E = 0$			0.1	uA
		$V_{CB} = 25 V, I_E = 0, T_a = 150^\circ C$			10	
Emitter cut-off current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			10	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = 1 A, I_B = 100mA$			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c = 1 A, I_B = 100mA$			1.2	
Base-emitter turn-on voltage	$V_{BE(on)}$	$V_{CE} = 1V, I_c = 1A$			1	
DC current gain	h_{FE}	$V_{CE} = 10V, I_c = 5mA$	50			
		$V_{CE} = 1V, I_c = 500mA$	85		375	
		$V_{CE} = 1V, I_c = 1A$	60			
		$V_{CE} = 1V, I_c = 500mA$	100		250	
		$V_{CE} = 1V, I_c = 500mA$	160		400	
Collector output capacitance	C_{ob}	$V_{CB} = 10V, f = 1MHz$			25	pF
Transition frequency	f_T	$V_{CE} = 5V, I_c = 100mA, f = 100MHz$	100			MHz

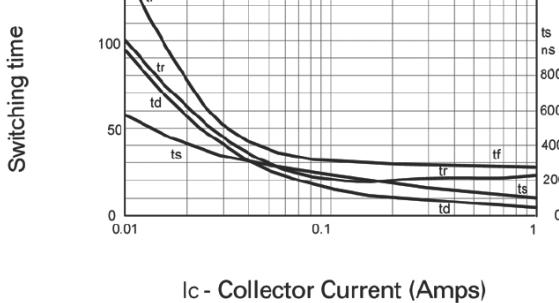
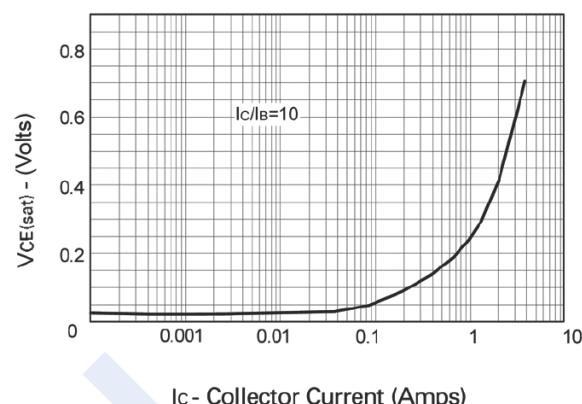
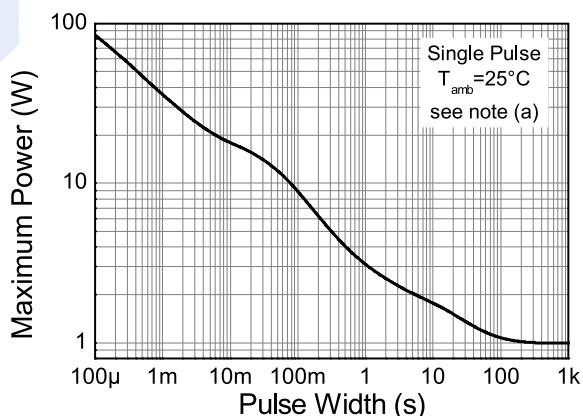
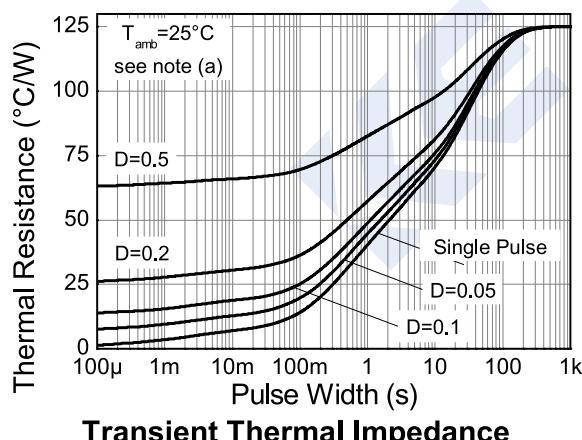
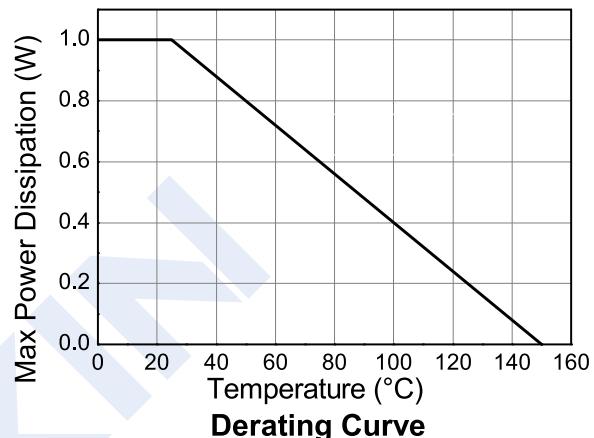
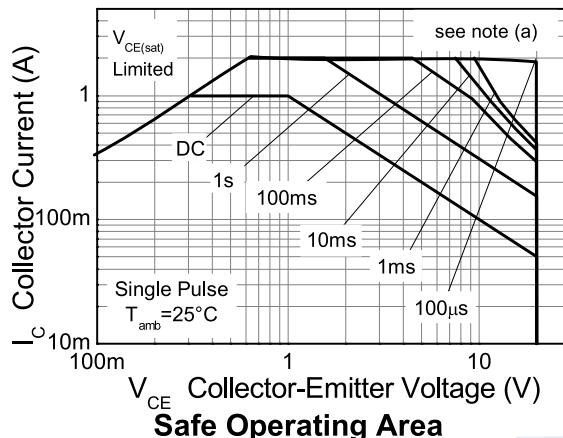
NPN Transistors

BCX68 (KCX68)

■ Classification of h_{fe}

Type	BCX68	BCX68-16	BCX68-25
Range	85-375	100-250	160-400
Marking	CE	CC	CD

■ Typical Characteristics



NPN Transistors**BCX68 (KCX68)**

■ Typical Characteristics

