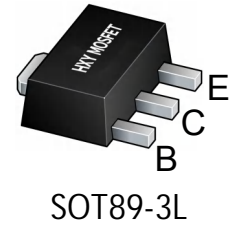




FEATURES

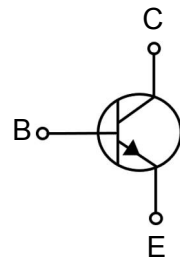
- PNP Complements to BCX51,BCX52,BCX53
- Low Voltage



Package Marking and Ordering Information

Product ID	Pack	Qty(PCS)
BCX54	SOT89-3L	1000
BCX55	SOT89-3L	1000
BCX56	SOT89-3L	1000

	63-250	63-160	100-250
Product ID	Marking		
BCX54	BA	BC	BD
BCX55	BE	BG	BM
BCX56	BH	BK	BL



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	BCX54	45	V
	BCX55	60	
	BCX56	100	
Collector-Emitter Voltage	BCX54	45	V
	BCX55	60	
	BCX56	80	
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	1	A
Collector Power Dissipation	P_C	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	$^{\circ}C/W$
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature	T_{stg}	-55~+150	$^{\circ}C$

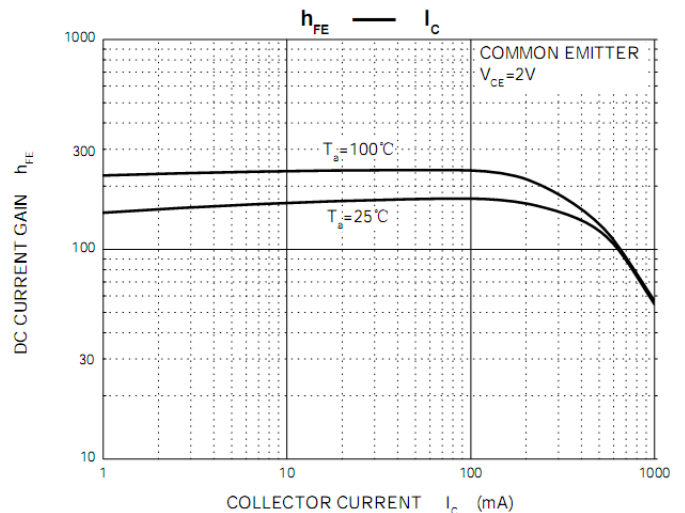
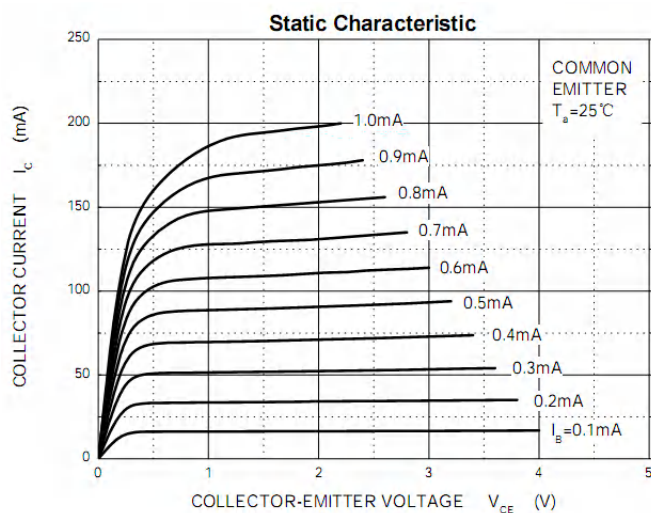


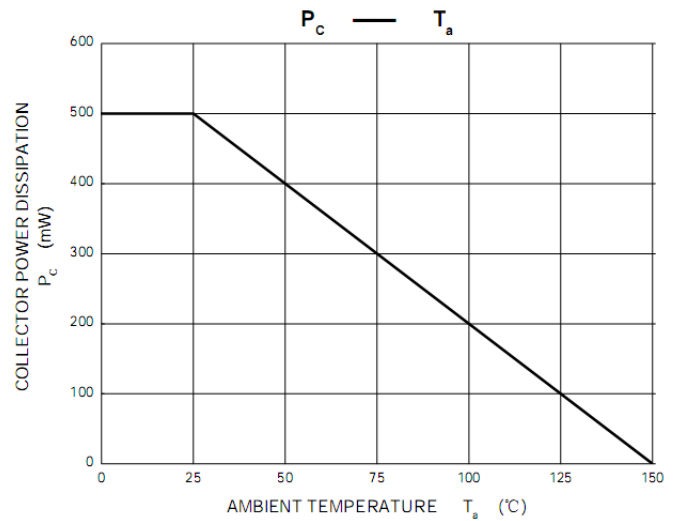
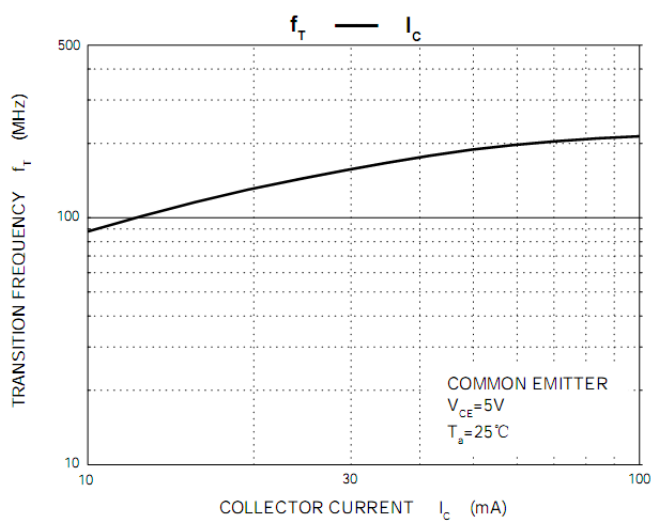
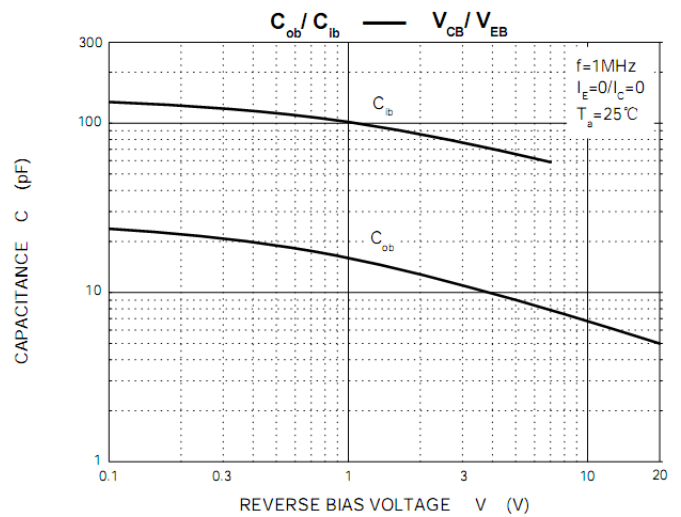
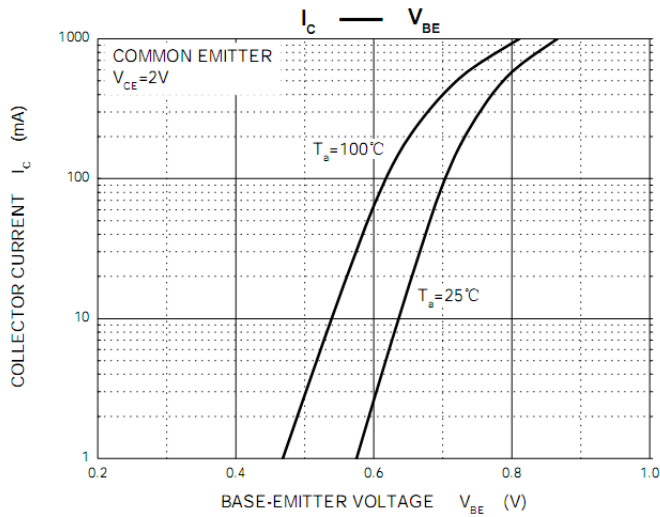
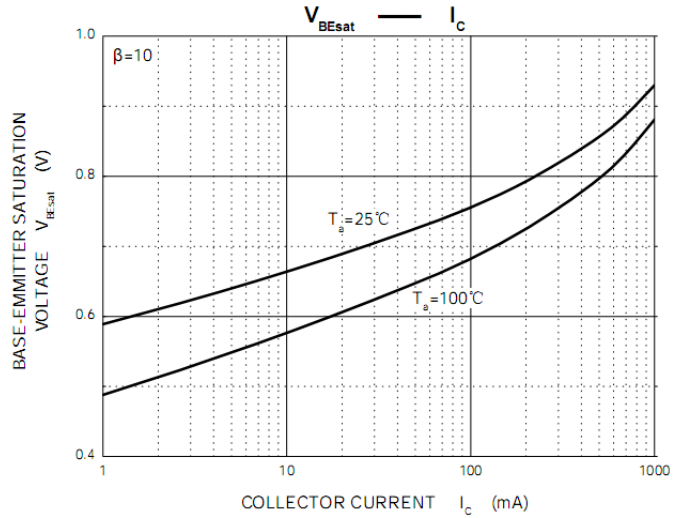
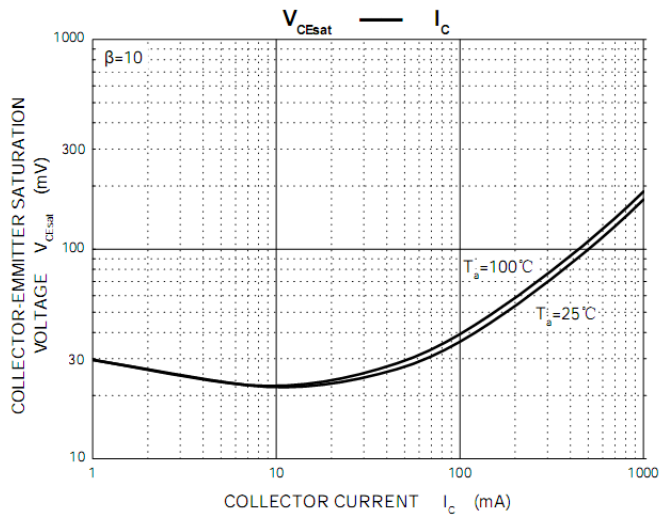
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}, I_E=0$	BCX54	45		V
			BCX55	60		
			BCX56	100		
Collector-emitter breakdown voltage	$V_{(BR)CEO^*}$	$I_C=10\text{mA}, I_B=0$	BCX54	45		V
			BCX55	60		
			BCX56	80		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu\text{A}, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)^*}$	$V_{CE}=2\text{V}, I_C=5\text{mA}$	40			
	$h_{FE(2)^*}$	$V_{CE}=2\text{V}, I_C=150\text{mA}$	63		250	
	$h_{FE(3)^*}$	$V_{CE}=2\text{V}, I_C=0.5\text{A}$	25			
Collector-emitter saturation voltage	$V_{CE(sat)^*}$	$I_C=0.5\text{A}, I_B=50\text{mA}$			0.5	V
Base-emitter voltage	V_{BE^*}	$V_{CE}=2\text{V}, I_C=0.5\text{A}$			1	V
Transition frequency	f_T	$V_{CE}=5\text{V}, I_C=10\text{mA}, f=100\text{MHz}$		130		MHZ

* Pulse Test

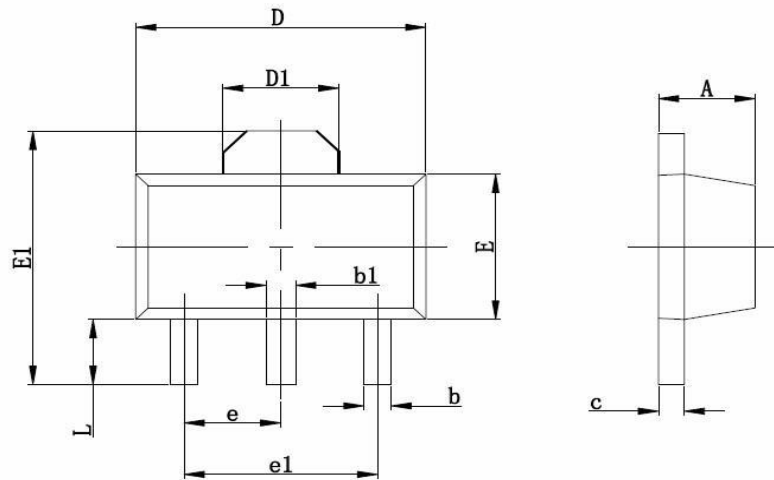
Typical Characteristics







SOT89-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047



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