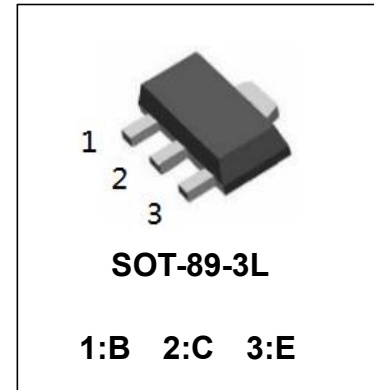



BCX54,BCX55,BCX56
(KCX54 ,KCX55,KCX56)
■ Features

- ◆ High current (max. 1A).
- ◆ Low voltage (max.80V).
- ◆ Package:SOT-89-3L.


■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	BCX54	45	V
	BCX55	V_{CB0}	60
	BCX56	100	V
Collector-emitter voltage	BCX54	45	V
	BCX55	V_{CEO}	60
	BCX56	80	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	1	A
Peak collector current	I_{CM}	1.5	A
Peak base current	I_{BM}	0.2	A
Total power dissipation	P_{tot}	1.3	W
Storage temperature	T_{stg}	-65 to +150	°C
Junction temperature	T_J	150	°C
Operating ambient temperature	T_{amb}	-65 to +150	°C
Thermal resistance from junction to ambient	$R_{th(j-a)}$	94	K/W
Thermal resistance from junction to solder point	$R_{th(j-s)}$	14	K/W

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 30\text{ V}, I_E = 0$			100	nA
		$V_{CB} = 30\text{ V}, I_E = 0; T_J = 125$			10	u A


NPN Transistors

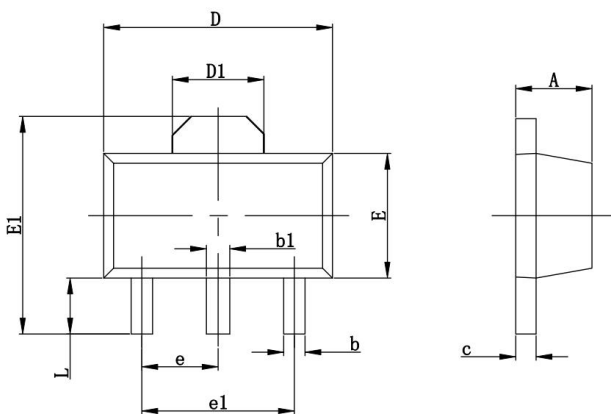
Emitter cutoff current	I_{EBO}	$V_{EB} = 5\text{ V}, I_C = 0$			100	nA
DC current gain	h_{FE}	$I_C = 5\text{ mA}; V_{CE} = 2\text{ V}$	63			
		$I_C = 150\text{ mA}; V_{CE} = 2\text{ V}$	63		250	
		$I_C = 500\text{ mA}; V_{CE} = 2\text{ V}$	40			
DC current gain BCX54-10,BCX55-10,BCX56-10 BCX54-16,BCX55-16,BCX56-16	h_{FE}	$I_C = 150\text{ mA}; V_{CE} = 2\text{ V}$	63		160	
		$I_C = 150\text{ mA}; V_{CE} = 2\text{ V}$	100		250	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 500\text{ mA}; I_B = 50\text{ mA}$			0.5	V
Base to emitter voltage	V_{BE}	$I_C = 500\text{ mA}; V_{CE} = 2\text{ V}$			1	V
Transition frequency	f_T	$I_C = 10\text{ mA}; V_{CE} = 5\text{ V}; f = 100\text{ MHz}$		130		MHz
DC current gain ratio of the complementary pairs	$\frac{h_{FE}}{h_{FE}}$	$ I_C = 150\text{ mA}; V_{CE} = 2\text{ V}$		1.3	1.6	
	h_{FE}					

hFE Classification

TYPE	BCX54	BCX54-10	BCX54-16
Marking	BA	BC	BD

TYPE	BCX55	BCX55-10	BCX55-16
Marking	BE	BG	BM

TYPE	BCX56	BCX56-10	BCX56-16
Marking	BH	BK	BL

Package mechanical data

SOT-89-3L

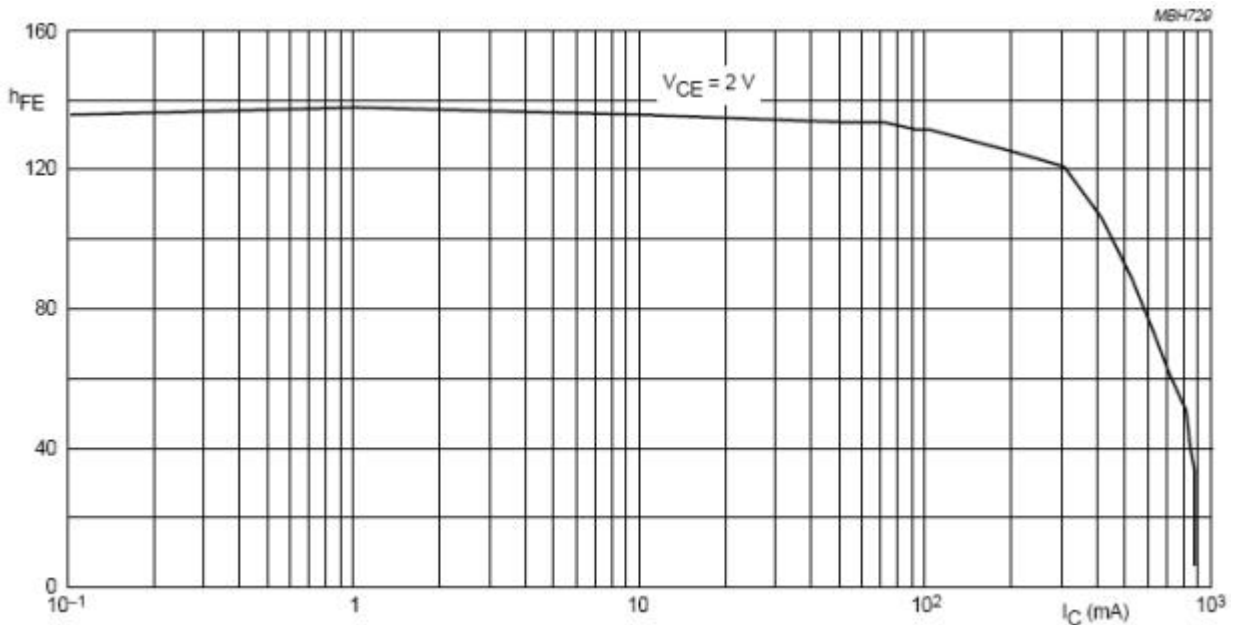
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.4		1.6	0.055		0.063
b	0.35		0.52	0.013		0.197
b1	0.4		0.58	0.016		0.023
c	0.35		0.44	0.014		0.017
D	4.4		4.6	0.173		0.181
D1		1.55			0.061	
E	2.35		2.55	0.091		0.102
E1	3.94		4.25	0.155		0.167
e		1.500			0.060	
e1		3.000			0.118	
L	0.9		1.1	0.035		0.047



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NPN Transistors

■ Typical Characteristics



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