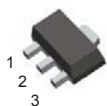


RoHS Compliant Product

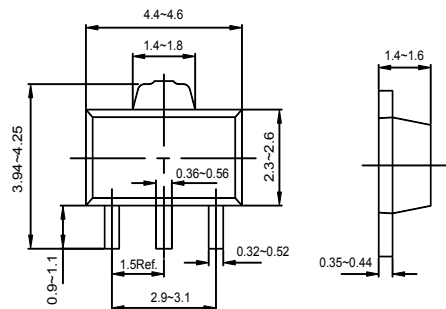


- 1.BASE
- 2.COLLECTOR
- 3.EMITTER

SOT-89

**Features**

Power dissipation  
 $P_{CM}$ : 0.5 W ( $T_{amb}=25^{\circ}C$ )  
 Collector current  
 $I_{CM}$ : 1 A  
 Collector-base voltage  
 $V_{(BR)CBO}$ : 45 V



Operating and storage junction temperature range

$T_J, T_{stg}$ :  $-55^{\circ}C$  to  $+150^{\circ}C$

**ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}C$  unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	45		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	45		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5		V
Collector cut-off current	$I_{CBO}$	$V_{CB}=30V, I_E=0$		0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5V, I_C=0$		0.1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE}=2V, I_C=150mA$	63	250	
			63	160	
			100	250	
	$h_{FE(2)}$	$V_{CE}=2V, I_C=5mA$	40		
	$h_{FE(3)}$	$V_{CE}=2V, I_C=500mA$	25		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$		0.5	V
Base-emitter voltage	$V_{BE(ON)}$	$I_C=500mA, V_{CE}=2V$		1	V
Transition frequency	$f_T$	$V_{CE}=10V, I_C=50mA$ $f=100MHz$	130		MHz

<b>DEVICE MARKING</b>	BCX54=BA    BCX54-10=BC    BCX54-16=BD
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