

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

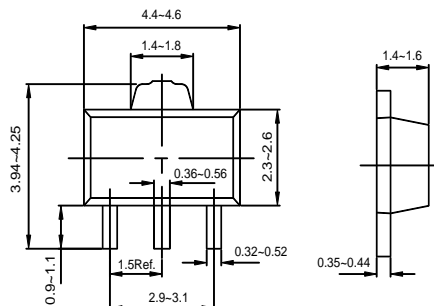


- 1.BASE
- 2.COLLECTOR
- 3.EMITTER

**Features**

Power dissipation  
 $P_{CM}$ : 0.5 W ( $T_{amb}=25^{\circ}C$ )  
 Collector current  
 $I_{CM}$ : -1.0 A  
 Collector-base voltage  
 $V_{(BR)CBO}$ : -100.0 V

SOT-89



Dimension in Millimeter

Operating and storage junction temperature range

$T_J, T_{stg}$ : 150, -65 ~ 150°C

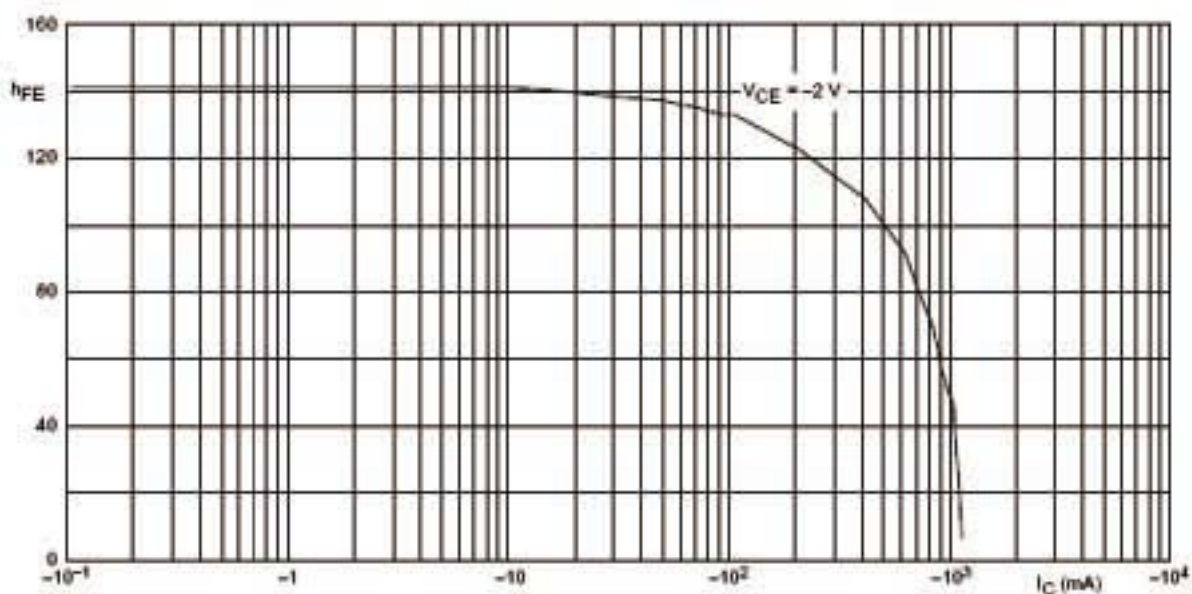
**ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}C$  unless otherwise specified)**

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-100		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{ mA}, I_B=0$	-80		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-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	$h_{FE(1)}$	$V_{CE}=-2V, I_C=-5\text{ mA}$	63		
	$h_{FE(2)}$	$V_{CE}=-2V, I_C=-150\text{ mA}$	63	250	
	$h_{FE(3)}$	$V_{CE}=-2V, I_C=-500\text{ mA}$	40		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500\text{ mA}, I_B=-50\text{ mA}$		-0.5	V
Base-emitter voltage	$V_{BE}$	$I_C=-500\text{ mA}, V_{CE}=-2V$		-1	V
Transition frequency	$f_T$	$V_{CE}=-5V, I_C=-10\text{ mA}$ $f = 100\text{ MHz}$	50		MHz

<b>DEVICE MARKING</b>	BCX53=AH BCX53-10=AK BCX53-16=AL
-----------------------	----------------------------------

RANK	BCX53	BCX53-10	BCX53-16
RANGE	63 - 250	63 - 160	100 - 250

**CHARACTERISTICS CURVE**



DC current gain; typical values.