

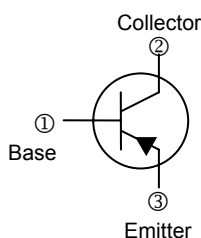
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

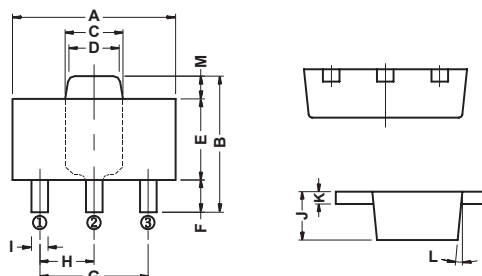
- Large collector power dissipation  $P_C$
- Complementary to 2SD874A

## PACKAGE INFORMATION

Weight = 0.05 g (approximately)



SOT-89



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.60	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5° TYP.	
			M	0.70 REF.	

## MARKING



## ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	$V_{CBO}$	-60	V
Collector-Emitter Voltage	$V_{CEO}$	-50	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current -Continuous	$I_C$	-1	A
Collector Power Dissipation	$P_C$	0.5	W
Junction & Storage temperature	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

## PNP ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	-60	-	-	V	$I_C = -10\mu\text{A}, I_E = 0$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	-50	-	-	V	$I_C = -2\text{mA}, I_B = 0$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	-5	-	-	V	$I_E = -10\mu\text{A}, I_C = 0$
Collector cut-off current	$I_{CBO}$	-	-	-0.1	$\mu\text{A}$	$V_{CB} = -20\text{V}, I_E = 0$
Emitter cut-off current	$I_{EBO}$	-	-	-0.1	$\mu\text{A}$	$V_{EB} = -4\text{V}, I_C = 0$
DC current gain	$h_{FE(1)}$	85	-	340		$V_{CE} = -10\text{V}, I_C = -500\text{mA}$
	$h_{FE(2)}$	50	-	-		$V_{CE} = -5\text{V}, I_C = -1000\text{mA}$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-0.2	-0.4	V	$I_C = -500\text{mA}, I_B = -50\text{mA}$
Base-emitter saturation voltage	$V_{BE(sat)}$	-	-0.85	-1.2	V	$I_C = -500\text{mA}, I_B = -50\text{mA}$
Transition frequency	$f_T$	-	200	-	MHz	$V_{CE} = -10\text{V}, I_C = -50\text{mA}, f = 200\text{MHz}$
Output Capacitance	$C_{OB}$	-	20	30	pF	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$

## CLASSIFICATION OF hFE2

Rank	Q	R	S
Range	82 - 170	120 - 240	170 - 340
Marking	BQ	BR	BS

**CHARACTERISTIC CURVES**

