

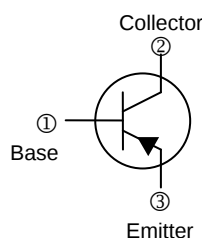
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

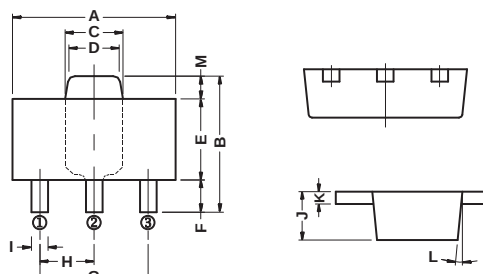
- Large collector power dissipation P_C
- Complementary to 2SD874A

PACKAGE INFORMATION

Weight: 0.05 g (approximately)



SOT-89



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

MARKING



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

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 specified)

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	μA	$V_{CB} = -20\text{V}, I_E = 0$
Emitter cut-off current	I_{EBO}	-	-	-0.1	μA	$V_{EB} = -4\text{V}, I_C = 0$
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 h_{FE2}

Rank	Q	R	S
Range	85 - 170	120 - 240	170 - 340
Marking	BQ	BR	BS

CHARACTERISTIC CURVES

