



## DESCRIPTION

The 2SC2873Y is available in SOT-89 package

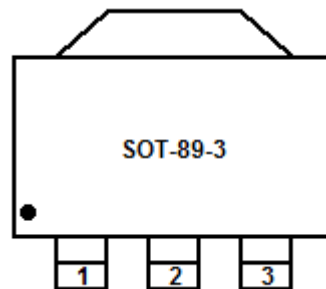
## ORDERING INFORMATION

Package Type	Part Number
SOT-89	2SC2873Y
Note	SPQ: 1,000pcs/Reel
AiT provides all RoHS Compliant Products	

## FEATURES

- Available in SOT-89 package

## PIN DESCRIPTION



1. BASE
2. COLLECTOR
3. EMITTER



## ABSOLUTE MAXIMUM RATINGS

$V_{CEO}$ , Collector-Emitter Voltage( $I_B=0$ )	32V
$V_{CBO}$ , Collector-Base Voltage( $I_E=0$ )	40V
$V_{EBO}$ , Emitter-Base Voltage( $I_C=0$ )	6V
$I_C$ , Collector Current	1.5A
$P_{TOT}$ , Total Device Dissipation( $T_A=25^\circ\text{C}$ ) <sup>NOTE1</sup>	500mW
$T_{JM}$ , Junction Temperature(Max)	150°C
$T_{STG}$ , Storage Temperature	-55°C ~150°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

NOTE1: Device mounted on a ceramic substrate

## ELECTRICAL CHARACTERISTICS

$T_A=25^\circ\text{C}$

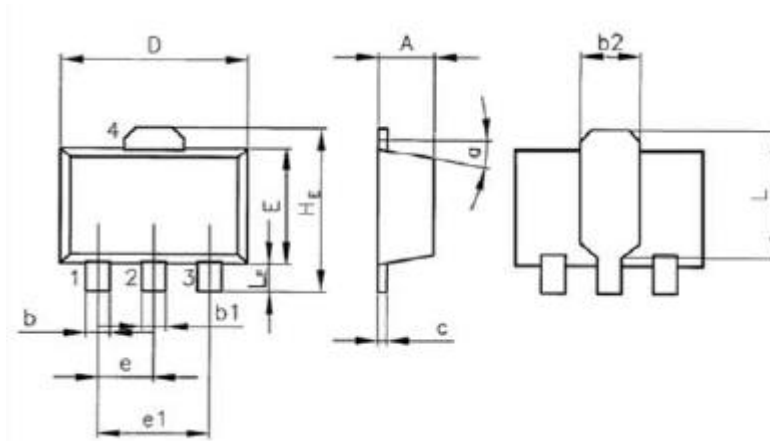
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	32			V
	$V_{(BR)CBO}$	$I_C=50\mu\text{A}, I_E=0$	40			V
	$V_{(BR)EBO}$	$I_E=50\mu\text{A}, I_C=0$	6			V
Collector-Cutoff Current	$I_{CBO}$	$V_{CB}=20\text{V}, I_E=0$			500	nA
DC Current Gain	$h_{FE}$	$I_C=100\text{mA}, V_{CE}=3.0\text{V}$	120		240	-
Collector- Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			0.50	V
Current Gain-Bandwidth Product	$f_T$	$I_C=50\text{mA}, V_{CE}=5\text{V}$	150			MHz

NOTE2: Pulse test; pulse width $\leq 300\mu\text{s}$ , duty cycle $\leq 2\%$ .



## PACKAGE INFORMATION

Dimension in SOT-89 (Unit: mm)



Symbol	Min	Typ	Max
A		1.5	
b			0.65
b1			0.65
b2		1.6	
c	0.25		
D		4.5	
E			2.6
e		1.5	
e1		3	
H <sub>E</sub>			4.25
L	2.6		2.95
L <sub>E</sub>	0.8		1.2
$\alpha$			10°



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