DESCRIPTION

The 2SC2873 is available in SOT-89 Package

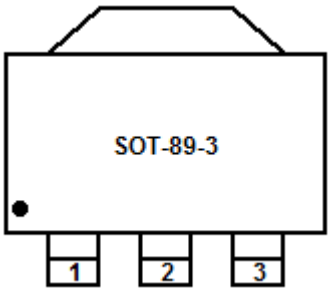
FEATURES

- Available in SOT-89 Package

ORDERING INFORMATION

Package Type	Part Number
SOT-89	2SC2873
Note	SPQ: 1,000pcs/Reel
AiT provides all RoHS Compliant Products	

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°C)NOTE1	500W
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

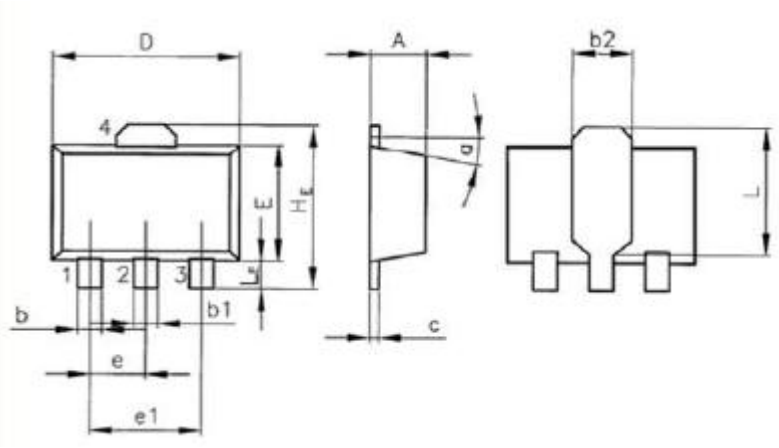
T_A=25°C

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

NOTE2: Pulse test; pulse width≤300μs, duty cycle≤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_E			4.25
L	2.6		2.95
L_E	0.8		1.2
α			10°

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