

DESCRIPTION

The 2SD874A is available in SOT-89 package

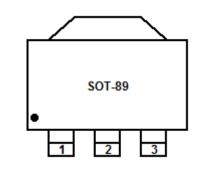
FEATURES

• Available in SOT-89 package

ORDERING INFORMATION

Package Type	Part Number			
SOT-89	2SD874A			
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(Ic=0)	6V
I _C , Collector Current	1A
PTOT, Total Device Dissipation(T _A =25°C) ^{NOTE1}	1W
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 printed circuit board.

ELECTRICAL CHARACTERISTICS

T_A=25°C, unless otherwise specified.

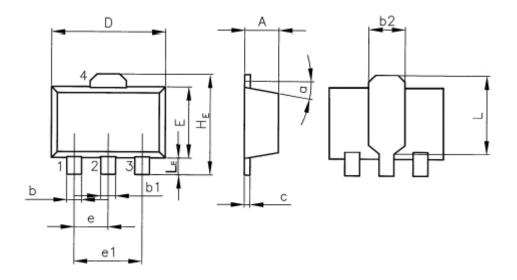
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Breakdown Voltage	V(BR)CEO	I _C =1mA, I _B =0	32			V
	V _{(BR)CBO}	Ic=50μA, I⊧=0	40			V
	V _{(BR)EBO}	I _E =50μΑ,I _C =0	6			V
Collector-Cutoff Current	Ісво	V _{CB} =20V, I _E =0			500	nA
DC Current Gain	h _{FE}	Ic=100mA, Vce=3.0V	120		240	-
Collector- Emitter Saturation		L = = = = = = = = = = = = = = = = = = =			0 50	V
Voltage _{NOTE2}	V _{CE(sat)}	I _C =500mA, I _B =50mA			0.50	v
Current Gain-Bandwidth Product	f⊤	Ic=50mA, Vce=5V 150			MHz	

NOTE2: Pulse test; pulse width≤300µs, duty cycle≤2%.



PACKAGE INFORMATION

Dimension in SOT-89 (Unit: mm)



Symbol	Min	Тур	Max
A	-	1.500	-
b	-	-	0.650
b1	-	-	0.650
b2	-	1.600	-
С	0.250	-	-
D	-	4.500	-
E	-	-	2.600
е	-	1.500	-
e1	-	3.000	-
HE	-	-	4.250
L	2.600	-	2.950
LE	0.800	-	1.200
α	-	-	10°



IMPORTANT NOTICE

AiT Semiconductor Inc. (AiT) reserves the right to make changes to any its product, specifications, to discontinue any integrated circuit product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied on is current.

AiT Semiconductor Inc.'s integrated circuit products are not designed, intended, authorized, or warranted to be suitable for use in life support applications, devices or systems or other critical applications. Use of AiT products in such applications is understood to be fully at the risk of the customer. As used herein may involve potential risks of death, personal injury, or servere property, or environmental damage. In order to minimize risks associated with the customer's applications, the customer should provide adequate design and operating safeguards.

AiT Semiconductor Inc. assumes to no liability to customer product design or application support. AiT warrants the performance of its products of the specifications applicable at the time of sale.