



DESCRIPTION

The 2SA1213Y is available in SOT-89 package

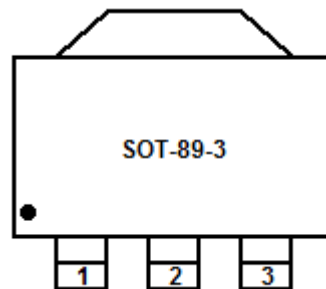
ORDERING INFORMATION

Package Type	Part Number
SOT-89	2SA1213Y
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	32V
V _{CBO} , Collector-Base Voltage	40V
V _{EBO} , Emitter-Base Voltage	5V
I _C , Collector Current	1.5A
P _{TOT} , Total Device Dissipation(T _A =25°C) ^{NOTE1}	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 printed circuit board.

ELECTRICAL CHARACTERISTICS

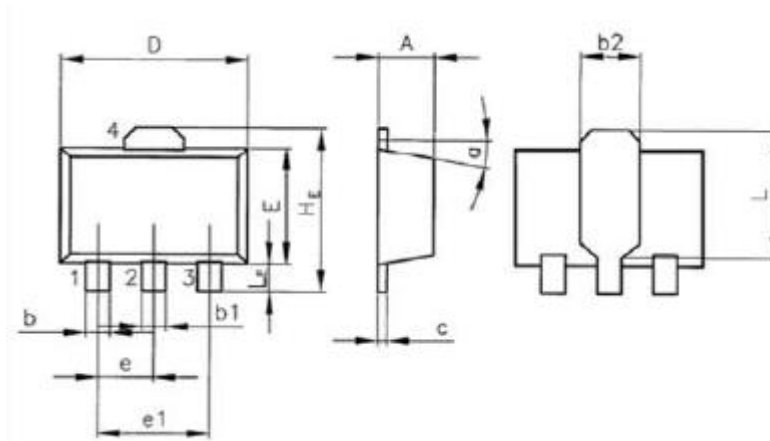
T_A=25°C

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	5			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



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°



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 severe 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.