



## DESCRIPTION

The PXT8550A is available in SOT-89 package

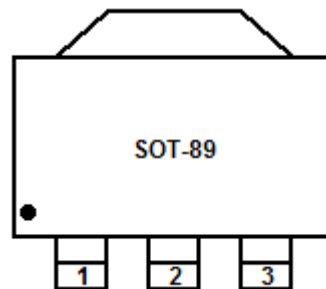
## FEATURES

- Available in SOT-89 package

## ORDERING INFORMATION

Package Type	Part Number
SOT-89	PXT8550A
Note	SPQ: 1,000pcs/Reel
AiT provides all RoHS Compliant Products	

## PIN DESCRIPTION



1. BASE
2. COLLECTOR
3. EMITTER



## ABSOLUTE MAXIMUM RATINGS

V <sub>CEO</sub> , Collector-Emitter Voltage	25V
V <sub>CBO</sub> , Collector-Base Voltage	40V
V <sub>EBO</sub> , Emitter-Base Voltage	5V
I <sub>C</sub> , Collector Current	1.5A
P <sub>TOT</sub> , Total Device Dissipation(T <sub>A</sub> =25°C) <sup>NOTE1</sup>	1000mW
T <sub>JM</sub> , Junction Temperature(Max)	150°C
T <sub>STG</sub> , 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

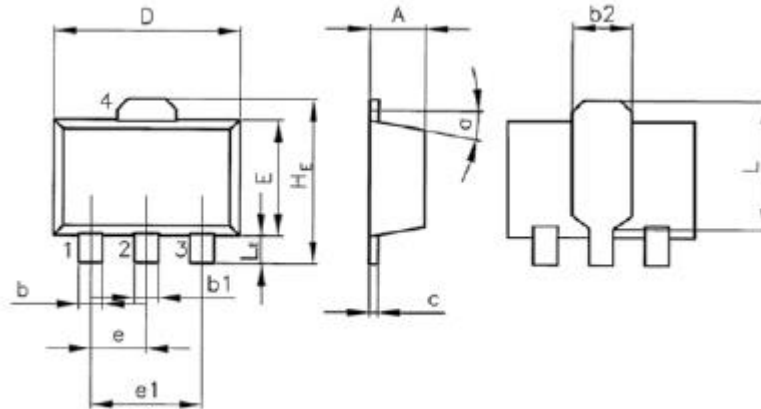
T<sub>A</sub>=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =1mA, I <sub>B</sub> =0	25			V
	V <sub>(BR)CBO</sub>	I <sub>C</sub> =100μA, I <sub>E</sub> =0	40			V
	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μA, I <sub>C</sub> =0	5			V
Collector-Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =35V, I <sub>E</sub> =0			160	nA
DC Current Gain	h <sub>FE</sub>	I <sub>C</sub> =100mA, V <sub>CE</sub> =1.0V	160		320	-
Collector- Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =800mA, I <sub>B</sub> =80mA			0.50	V
Current Gain-Bandwidth Product	f <sub>T</sub>	I <sub>C</sub> =50mA, V <sub>CE</sub> =10V, f=100MHz		200		MHz



## PACKAGE INFORMATION

Dimension in SOT-89 (Unit: mm)



Symbol	Min	Typ	Max
A	-	1.500	-
b	-	-	0.650
b1	-	-	0.650
b2	-	1.600	-
c	0.250	-	-
D	-	4.500	-
E	-	-	2.600
e	-	1.500	-
e1	-	3.000	-
HE	-	-	4.250
L	2.600	-	2.950
LE	0.800	-	1.200
$\alpha$	-	-	10°



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