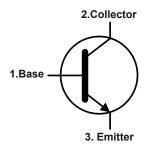


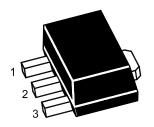
Features

- For Switching and Amplifier Applications.
- As Complementary Type of the PNP Transistor PXT8550 is Recommended.

Equivalent Circuit



SOT-89



1.Base 2.Collector 3. Emitter

Marking Code: PXT8050C: GC PXT8050D: GD

Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	40	V
Collector Emitter Voltage	V _{CEO}	25	V
Emitter Base Voltage	V _{EBO}	6	V
Collector Current	Ic	1.5	А
Maximum Power Dissipation	P _D	1	W
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

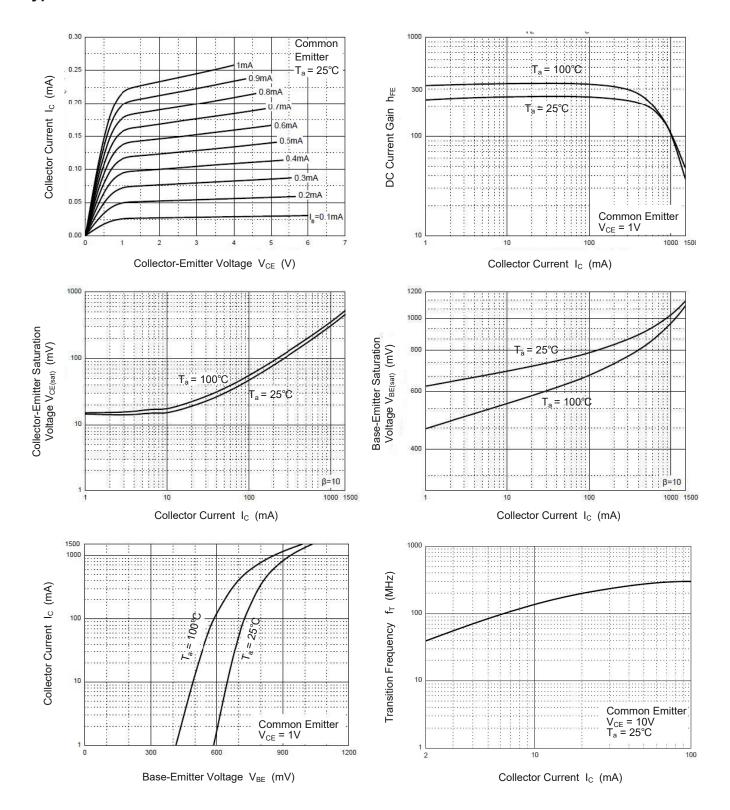


Electrical Characteristics (T_A=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain					
at V _{CE} = 1 V, I _C = 100 mA		120		200	
	H _{FE}	160		320	
at V _{CE} = 1 V, I _C = 800 mA		40			
Collector Base Cutoff Current		nA			
at $V_{CB} = 40 \text{ V}$				100	l na
Collector Base Breakdown Voltage			V		
at I _C = 100 µA	V _{(BR)CBO}	40			V
Collector Emitter Breakdown Voltage	Variation	25			V
at $I_C = 0.1 \text{ mA}$	V _{(BR)CEO}				
Emitter Base Breakdown Voltage	Vanasa	6			V
at I _E = 100 μA	V _{(BR)EBO}				
Collector Emitter Saturation Voltage	V _{CE(sat)}			0.5	V
at $I_C = 800 \text{ mA}$, $I_B = 80 \text{ mA}$	V CE(sat)				
Base Emitter Saturation Voltage	Vasco			1.2	V
at $I_C = 800 \text{ mA}$, $I_B = 80 \text{ mA}$	V _{BE(sat)}			1.2	_ v
Transition Frequency	F⊤	100			MHz
at V_{CE} = 10 V, I_C = 50 mA, f=30MHz	F1				



Typical Characteristic Curves

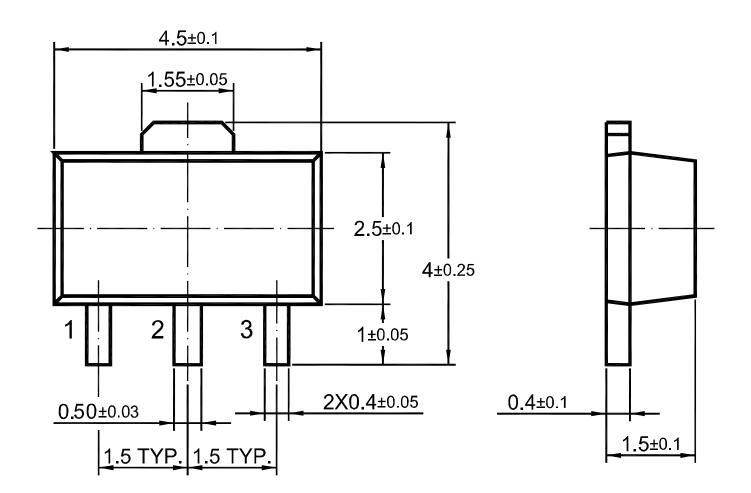




Package Outline

SOT-89

Dimensions in mm



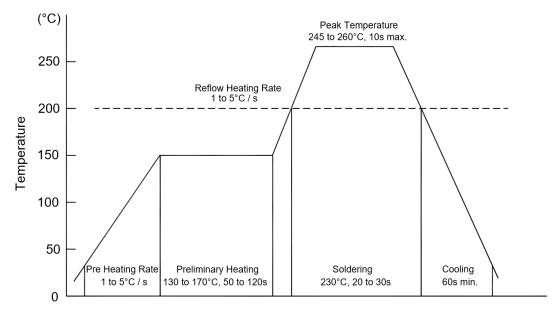
Ordering Information

Device	Package	Shipping	
PXT8050	00 TO2	1,000PCS/Reel&7inches	
	SOT-89	3,000PCS/Reel&13inches	



Conditions of Soldering and Storage

♦ Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters:

- Time length of peak temperature (longer)
- Time length of soldering (longer)
- Thickness of solder paste (thicker)

Conditions of hand soldering

• Temperature: 370 °C

Time: 3s max.Times: one time

♦ Storage conditions

Temperature

5 to 40 °C

Humidity

30 to 80% RH

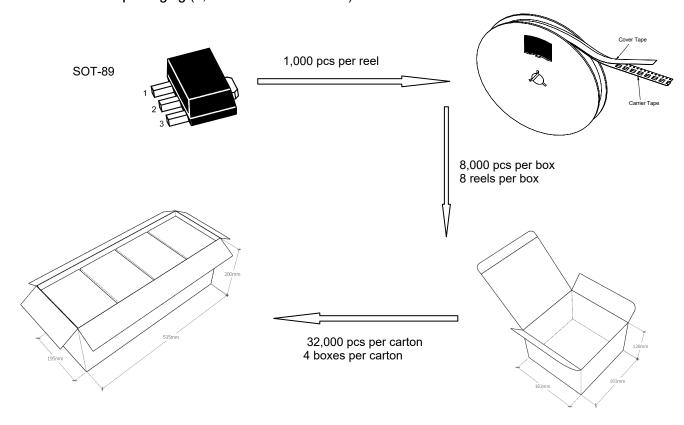
Recommended period

One year after manufacturing

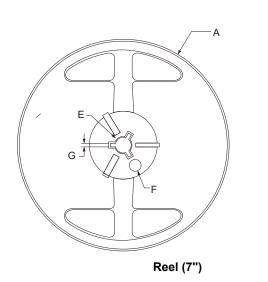


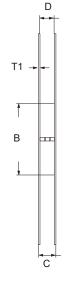
Package Specifications

• The method of packaging (1,000PCS/Reel&7inches)

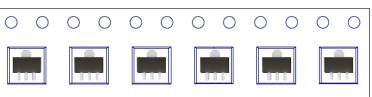


♦ Embossed tape and reel data





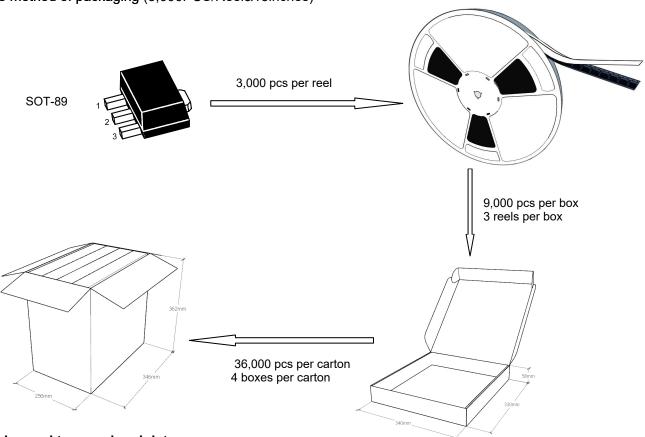
symbol	Value(unit:mm)
Α	Ф179±1
В	60.5±0.2
С	15.3±0.3
D	12.5~13.7
Е	Ф13.5±0.2
F	Ф10.0±0.2
G	2.7±0.2
T1	1.0±0.2



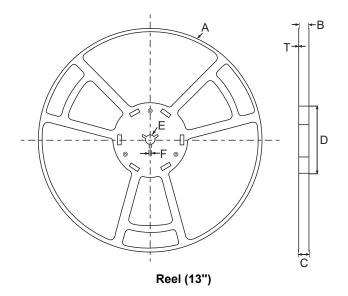


Package Specifications

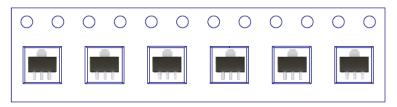
The method of packaging (3,000PCS/Reel&13inches)



Embossed tape and reel data



symbol	Value(unit:mm)
Α	Ф330±1
В	12.7±0.5
С	16.5±0.3
D	Ф99.5±0.5
Е	Ф13.6±0.3
F	2.8±0.3
T1	1.9±0.2





Contact Information

For additional information, please contact your local Sales Representative.



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Product Specification Statement

The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. TANI shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and TANI assumes no responsibility for the application of the product. TANI strives to provide accurate and up -to- date information to the best of our ability. However, due to technical, human, or other reasons, TANI cannot guarantee that the information provided in the product specification is entirely accurate and error-free. TANI shall not be held responsible for any losses or damages resulting from the use or reliance on any information in these product specifications.

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Users are advised to pay attention to the parameter limit values specified in the product specification and maintain a certain margin in design or application to ensure that the product does not exceed the parameter limit values defined in the product specification. This precaution should be taken to avoid exceeding one or more of the limit values, which may result in permanent irreversible damage to the product, ultimately affecting the quality and reliability of the system or equipment.

The design of the product is intended to meet civilian needs and is not guaranteed for use in harsh environments or precision equipment. It is not recommended for use in systems or equipment such as medical devices, aircraft, nuclear power, and similar systems, where failures in these systems or equipment could reasonably be expected to result in personal injury. TANI shall assume no responsibility for any consequences resulting from such usage.

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