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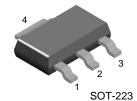
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NZT749

PNP Current Driver Transistor

- This device is designed for power amplifier, regulator and switching circuit where speed is important.
- Sourced from process 5P.



1. Base 2, 4. Collector 3. Emitter

Absolute Maximum Ratings* T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{CBO}	Collector-Base Voltage	-35	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I _C	Collector Current (DC) - Continuous	-4.0	Α
T _J , T _{STG}	Operating and Storage Junction Temperature Range	- 55 ~ 150	°C

^{*} These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

- These ratings are based on a maximum junction temperature of 150 degrees C.
 These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations

$\textbf{Electrical Characteristics} \ \, \textbf{T}_{a} \!\!=\!\! 25^{\circ} \textbf{C} \ \, \textbf{unless otherwise noted}$

neter	Test Condition	Min.	Max.	Units
	•		•	•
tage	$I_C = -10 \text{mA}, I_B = 0$	-25		V
ge	$I_C = -100\mu A, I_E = 0$	-35		V
9	$I_E = -10\mu A, I_C = 0$	-5.0		V
rent	$V_{CB} = -30V, I_{E} = 0$		-100	nA
ent	$V_{EB} = -4V, I_{C} = 0$		-0.1	μΑ
	•			
	$V_{CE} = -2.0V, I_{C} = -50mA$	70		
	$V_{CE} = -2.0V, I_{C} = -1.0A$	80	300	
	$V_{CE} = -2.0V, I_{C} = -2.0A$	65		
turation Voltage	$I_C = -1.0A$, $I_B = -100mA$		-0.3	V
tion Voltage	$I_C = -1.0A$, $I_B = -100mA$		-1.25	V
tage	$I_C = -1.0A, V_{CE} = -2.0V$		-1.0	V
dth Product	$V_{CE} = -5.0V, I_{C} = -50mA$ f = 100MHz	75		MHz
	dth Product	f = 100MHz	f = 100MHz	f = 100MHz

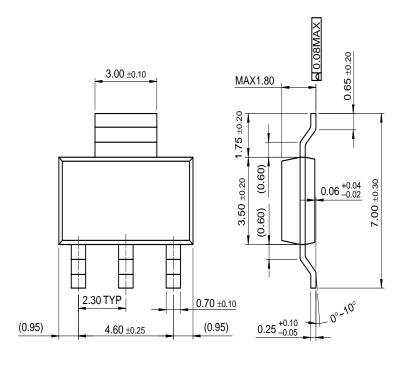
Thermal Characteristics T_a=25°C unless otherwise noted

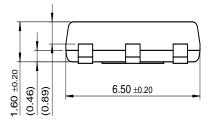
Symbol	Parameter	Max.	Units
P _D	Total Device Dissipation	1.2	W
_	Derate above 25°C	9.7	mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	103	°C/W

Rev. A, July 2004

Package Dimensions

SOT-223





Dimensions in Millimeters

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Stealth™

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