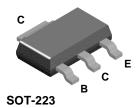


TN6726A

NZT6726





PNP General Purpose Amplifier

This device is designed for general purpose medium power amplifiers and switches requiring collector currents to 1.0 A. Sourced from Process 77.

Absolute Maximum Ratings*

TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CEO}	Collector-Emitter Voltage	30	V
V _{CBO}	Collector-Base Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current - Continuous	1.5	A
T _J , T _{stg}	Operating and Storage Junction Temperature Range	-55 to +150	°C

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

- 1) These ratings are based on a maximum junction temperature of 150 degrees C.
 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.
 3) All voltages (V) and currents (A) are negative polarity for PNP transistors.

Thermal Characteristics TA = 25°C unless otherwise noted

Symbol	Characteristic	М	Units	
		TN6726A	*NZT6726	
P _D	Total Device Dissipation	1.0	1.0	W
	Derate above 25°C	8.0	8.0	mW/°C
$R_{\theta JC}$	Thermal Resistance, Junction to Case	50		°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	125	125	°C/W

^{*}Device mounted on FR-4 PCB 36 mm X 18 mm X 1.5 mm; mounting pad for the collector lead min. 6 cm².

PNP General Purpose Amplifier

60 50

250

0.5

1.2

(continued)

	30	I _C = 10 mA, I _B = 0	RACTERISTICS Collector-Emitter Breakdown	OFF CHAF
	30	I _C = 10 mA, I _B = 0	Collector Emittor Brookdown	
			Voltage	$V_{(BR)CEO}$
	40	$I_C = 1.0 \text{ mA}, I_E = 0$	Collector-Base Breakdown Voltage	V _{(BR)CBO}
	5.0	$I_E = 100 \mu A, I_C = 0$	Emitter-Base Breakdown Voltage	V _{(BR)EBO}
0.1		V _{CB} = 40 V, I _E = 0	Collector-Cutoff Current	I _{CBO}
0.1		V _{EB} = 5.0 V, I _C = 0	Emitter-Cutoff Current	I _{EBO}
0.1			ACTERISTICS*	
		5.0	V _{CB} = 40 V, I _C = 0 V _{EB} = 5.0 V, I _C = 0	Collector-Cutoff Current $V_{CB} = 40 \text{ V}, I_E = 0$ Emitter-Cutoff Current $V_{EB} = 5.0 \text{ V}, I_C = 0$ ACTERISTICS*

SMALL SIGNAL CHARACTERISTICS

Base-Emitter On Voltage

 $V_{CE(sat)}$ $V_{BE(on)}$

h _{fe}	Small-Signal Current Gain	$I_C = 50 \text{ mA}, V_{CE} = 10 \text{ V},$ f = 20 MHz	2.5	25	
C _{cb}	Collector-Base Capacitance	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1.0 \text{ MHz}$		30	pF

 $I_C = 100$ mA, $V_{CE} = 1.0$ V

 $I_C = 1.0 A, V_{CE} = 1.0 V$

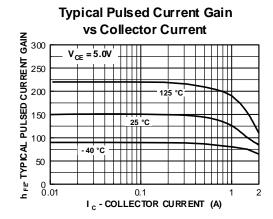
 $I_C = 1.0 \text{ A}, I_B = 100 \text{ mA}$

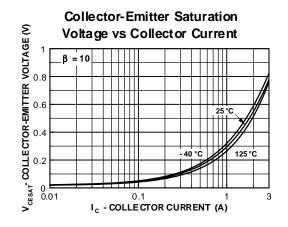
 $I_C = 1.0 \text{ A}, V_{CE} = 1.0 \text{ V}$

NOTE: All voltages (V) and currents (A) are negative polarity for PNP transistors.

Collector-Emitter Saturation Voltage

Typical Characteristics



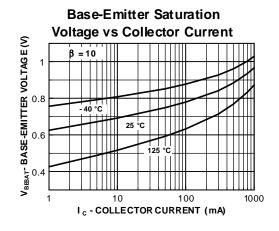


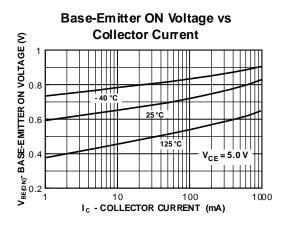
^{*}Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 1.0%

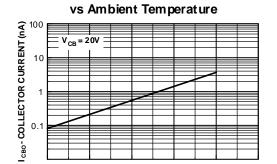
PNP General Purpose Amplifier

(continued)

Typical Characteristics (continued)





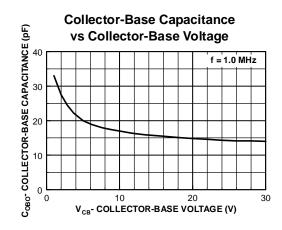


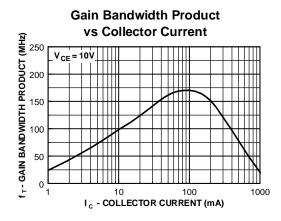
100

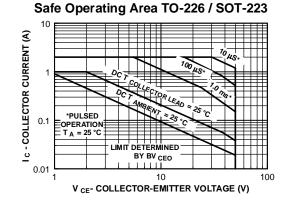
T A - AM BIENT TEMPERATURE (°C)

150

Collector-Cut off Current



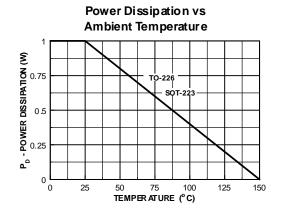


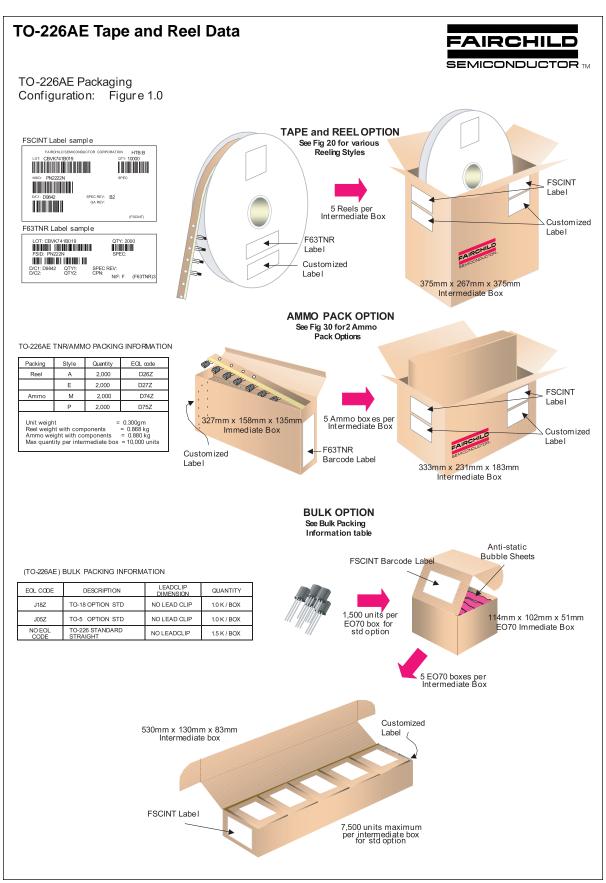


25

PNP General Purpose Amplifier (continued)

Typical Characteristics (continued)



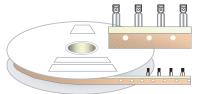


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TO-226AE Tape and Reel Data, continued

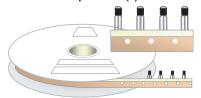
TO-226AE Reeling Style Configuration: Figure 2.0

Machine Option "A" (H)



Style "A" D26Z, D70Z (s/h)

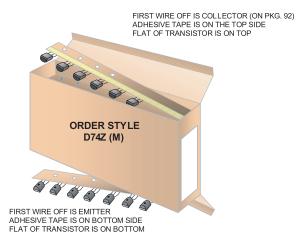
Machine Option "E"(J)



Style "E" D27Z, D71Z (s/h)

TO-226AE Radial Ammo Packaging

Configuration: Figure 3.0



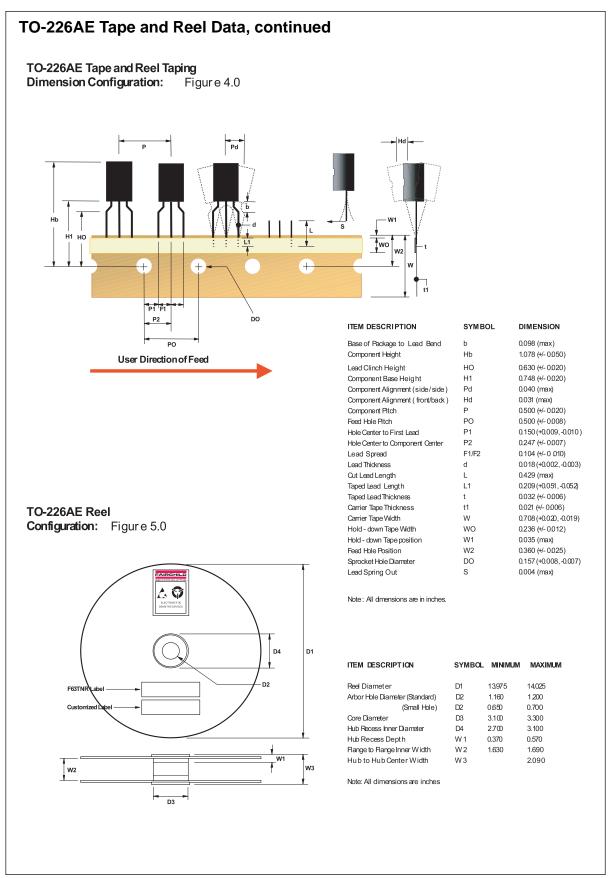
FIRST WIRE OFF IS EMITTER (ON PKG. 92)
ADHESIVE TAPE IS ON THE TOP SIDE
FLAT OF TRANSISTOR IS ON BOTTOM

ORDER STYLE
D75Z (P)

FIRST WIRE OFF IS COLLECTOR
ADHESIVE TAPE IS ON BOTTOM SIDE

FLAT OF TRANSISTOR IS ON TOP

October 1999, Rev. A1



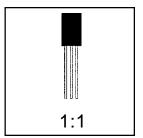
October 1999, Rev. A1

TO-226AE Package Dimensions



TO-226AE (FS PKG Code 95, 99)

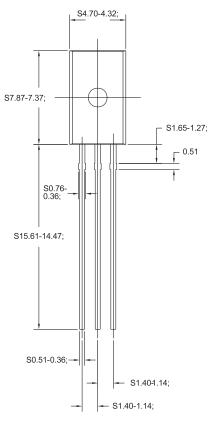


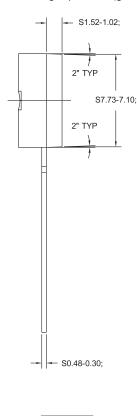


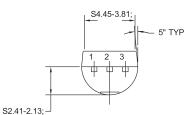
Scale 1:1 on letter size paper

Dimensions shown below are in: inches [millimeters]

Part Weight per unit (gram): 0.300







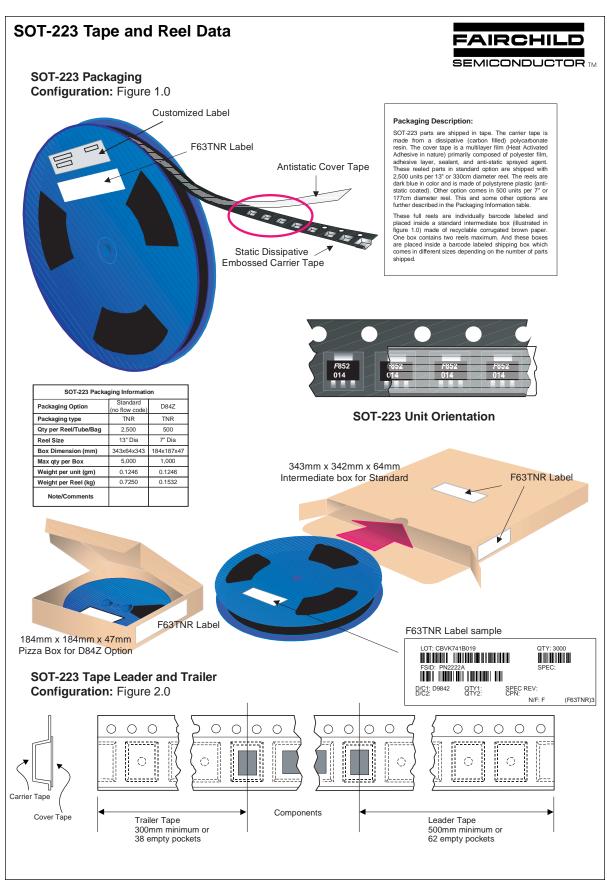
2 B C 3 C B

TO-226AE (95,99)

For leadformed option ordering, refer to Tape & Reel data information.

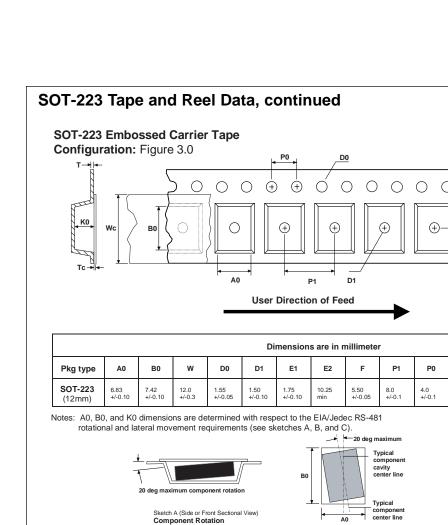
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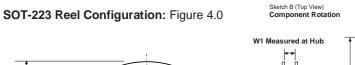
October 1999, Rev. A1

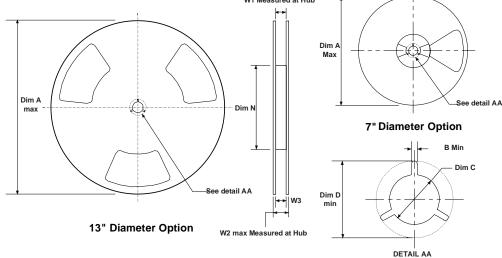


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September 1999, Rev. B







K0

0.292 +/-0.0130 Wc

0.5mm maximum

Sketch C (Top View)

Component lateral movement

Tc

0.06 +/-0.02

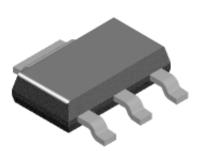
Dimensions are in inches and millimeters									
Tape Size	Reel Option	Dim A	Dim B	Dim C	Dim D	Dim N	Dim W1	Dim W2	Dim W3 (LSL-USL)
12mm	7" Dia	7.00 177.8	0.059 1.5	512 +0.020/-0.008 13 +0.5/-0.2	0.795 20.2	5.906 150	0.488 +0.078/-0.000 12.4 +2/0	0.724 18.4	0.469 - 0.606 11.9 - 15.4
12mm	13" Dia	13.00 330	0.059 1.5	512 +0.020/-0.008 13 +0.5/-0.2	0.795 20.2	7.00 178	0.488 +0.078/-0.000 12.4 +2/0	0.724 18.4	0.469 - 0.606 11.9 - 15.4

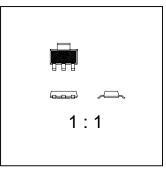
July 1999, Rev. B

SOT-223 Package Dimensions



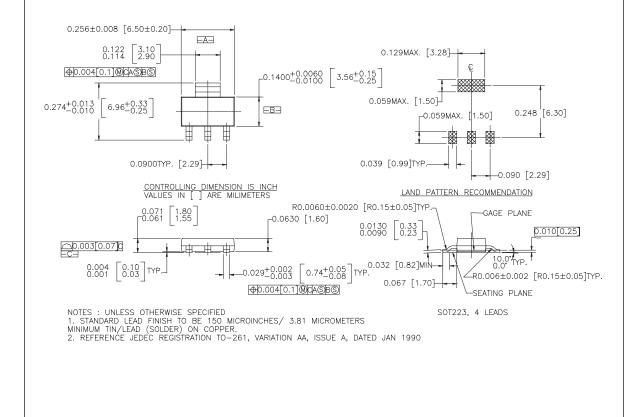
SOT-223 (FS PKG Code 47)





Scale 1:1 on letter size paper

Part Weight per unit (gram): 0.1246



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September 1999, Rev. C

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Rev. G