



Micro Commercial Components

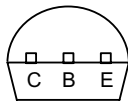
Micro Commercial Components
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2N4403-TS01

Features

- Through Hole Package
- Capable of 600mWatts of Power Dissipation

Pin Configuration
 Bottom View



PNP General Purpose Amplifier

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=1.0mA$, $I_B=0$)	40		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=10\mu A$, $I_E=0$)	40		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu A$, $I_C=0$)	5.0		Vdc
I_{BL}	Base Cutoff Current ($V_{CE}=30Vdc$, $V_{BE}=3.0Vdc$)		0.1	μA
I_{CEX}	Collector Cutoff Current ($V_{CE}=30Vdc$, $V_{BE}=3.0Vdc$)		0.1	μA

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C=0.1mA$, $V_{CE}=1.0Vdc$) ($I_C=1.0mA$, $V_{CE}=1.0Vdc$) ($I_C=10mA$, $V_{CE}=1.0Vdc$) ($I_C=150mA$, $V_{CE}=2.0Vdc$) ($I_C=500mA$, $V_{CE}=2.0Vdc$)	30 60 100 100 20	300	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$) ($I_C=500mA$, $I_B=50mA$)		0.4 0.75	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=150mA$, $I_B=15mA$) ($I_C=500mA$, $I_B=50mA$)	0.75	0.95 1.30	Vdc

SMALL-SIGNAL CHARACTERISTICS

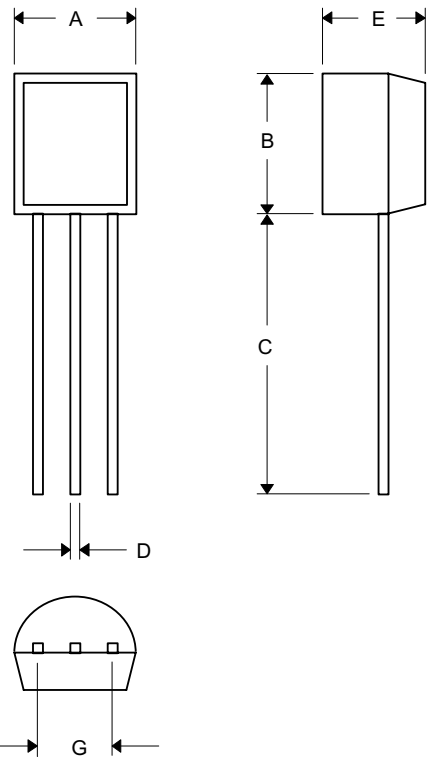
f_T	Current Gain-Bandwidth Product ($I_C=20mA$, $V_{CE}=10Vdc$, $f=100MHz$)	200		MHz
C_{cb}	Output Capacitance ($V_{CB}=10Vdc$, $I_E=0$, $f=140kHz$)		8.5	pF
C_{eb}	Input Capacitance ($V_{EB}=0.5Vdc$, $I_C=0$, $f=140kHz$)		30.0	pF

SWITCHING CHARACTERISTICS

t_d	Delay Time	$(V_{CC}=3.0Vdc$, $V_{BE}=2.0Vdc$ $I_C=150mA$, $I_{B1}=15mA$)	15	ns
t_r	Rise Time		20	ns
t_s	Storage Time	$(V_{CC}=3.0Vdc$, $I_C=150mA$ $I_{B1}=I_{B2}=15mA$)	225	ns
t_f	Fall Time		30	ns

*Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2.0\%$

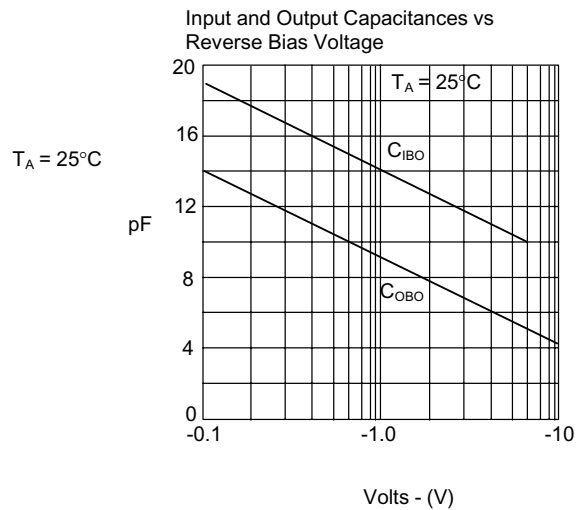
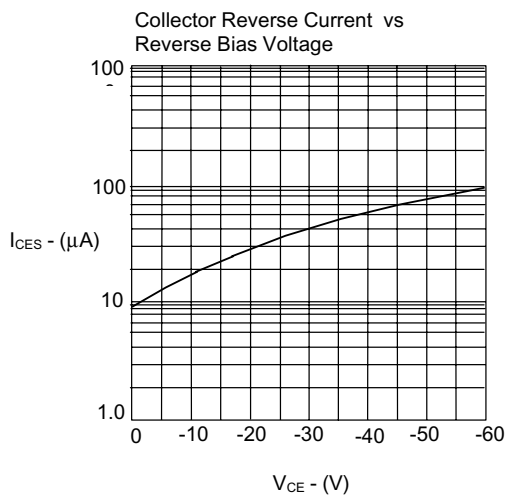
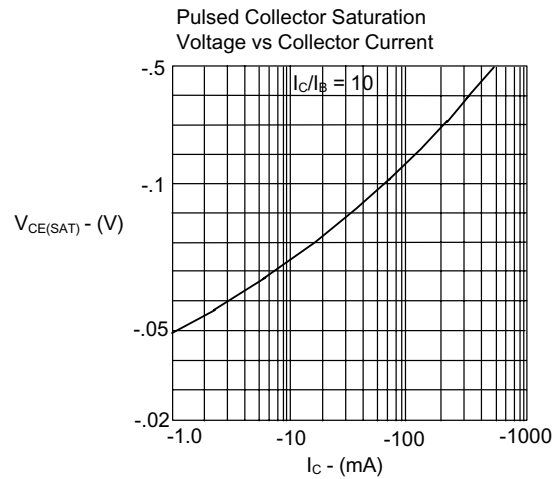
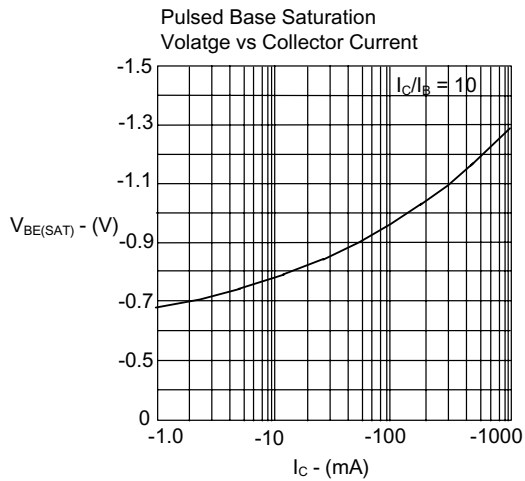
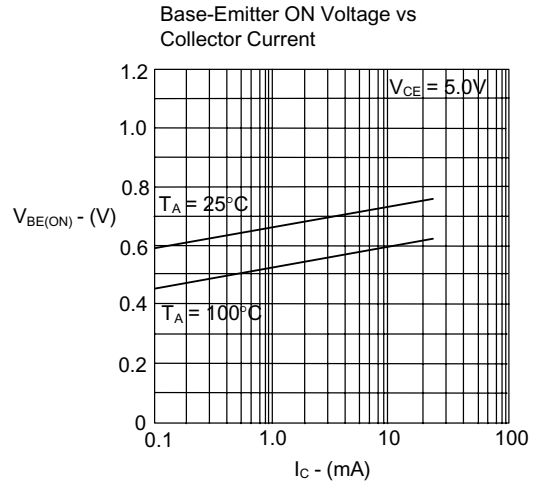
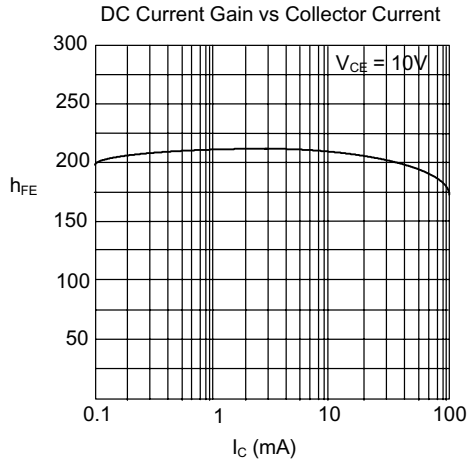
TO-92



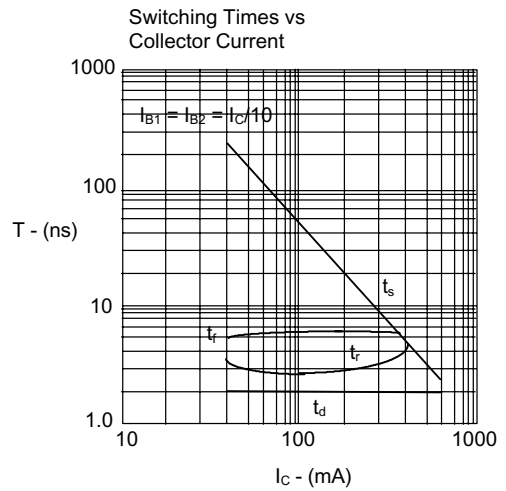
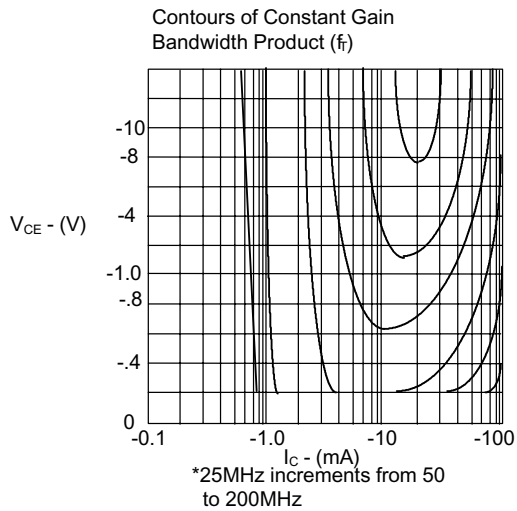
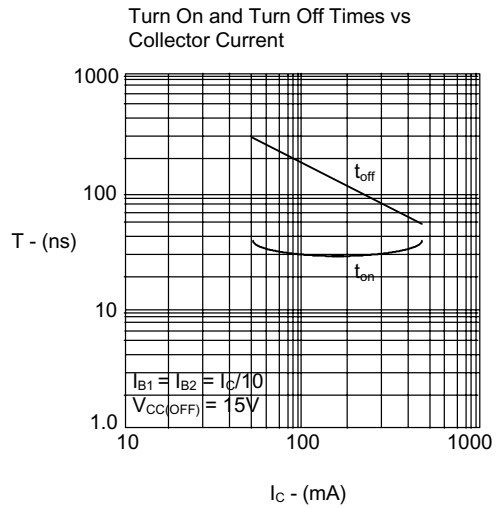
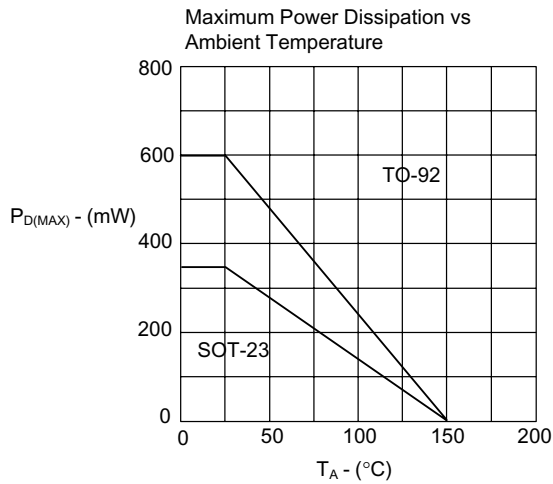
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

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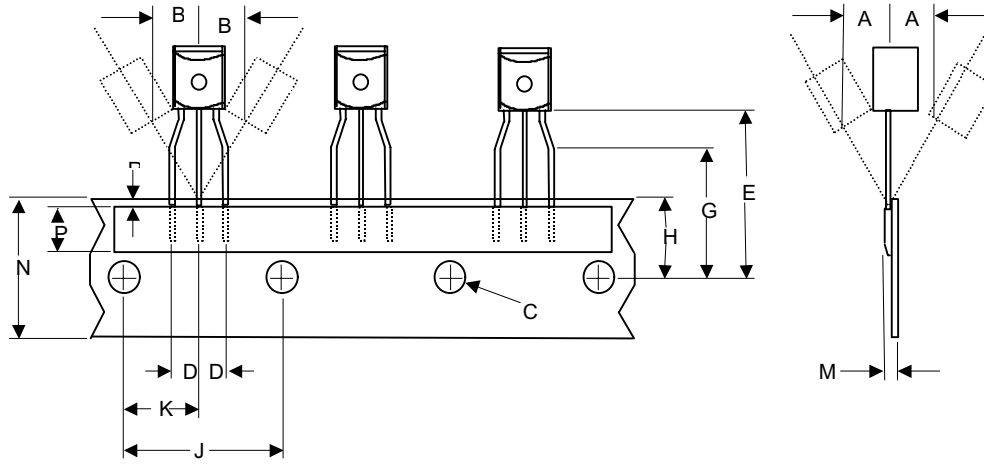
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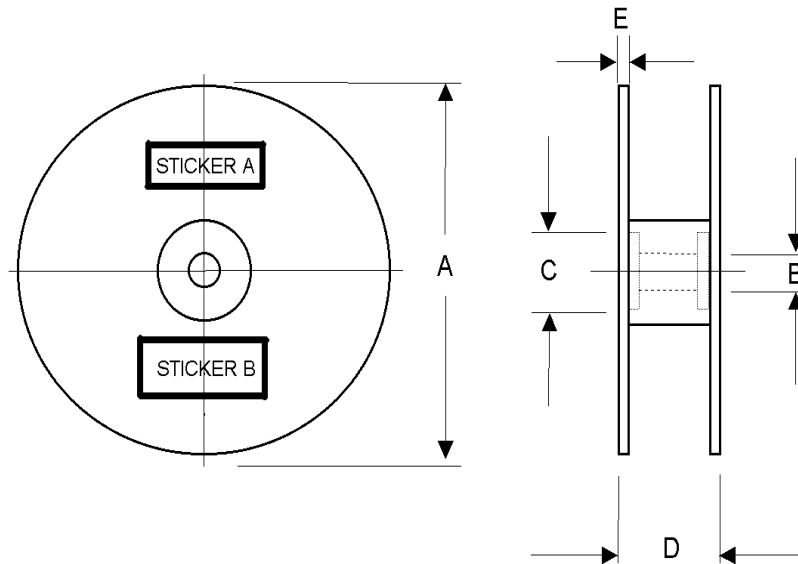


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Description	Dimension	Specification(mm)
Front To Rear Deflection	A	0.8Max.
Left To Right Deflection	B	1.0Max.
feed Hole Diameter	C	4.0±0.2
Component Lead Pitch	D	2.6±0.3
Feed Hole To Bottom Of Component	E	19.0±0.5
Height Of Seating Plane	G	16.0±0.5
Height Of Feed Hole Location	H	9.1±0.6
Feed Hole Pitch	J	12.7±0.2
Center Of Seating Plane Location	K	6.3±0.2
Total Taped Package Thickness	M	0.8±0.2
Carrier Tape Width	N	18.0±0.5
Adhesive Tape Width	P	6.0±0.3
Adhesive Tape Position	R	0.9Max.

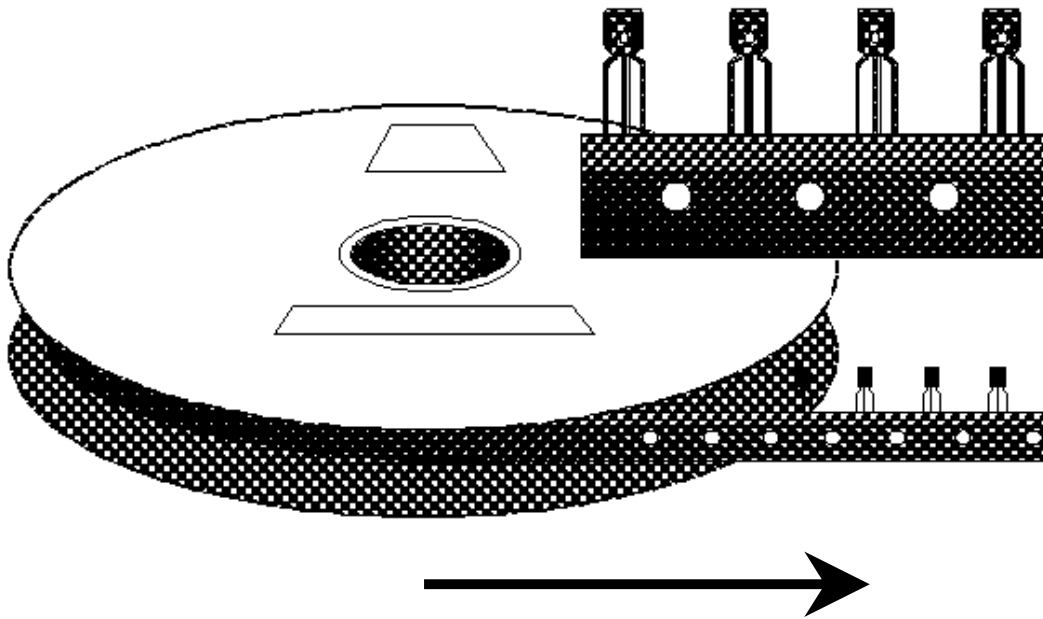
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Reel Dimensions

Description	Dimension	Specification (mm)
Reel Diameter	A	355±1.0
Core Diameter (Outside Dimension)	B	30
Arbor Hole Diameter	C	76.5±0.5
Reel Width	D	49
Reel Board Thickness	E	3.0±0.3

數量：2000PCS/REEL



START

- 注：1. START 處留30MM空格帶
END 處留20MM空格帶
2. TO-92 TAPE的START/END處 用透明膠帶(10cm)粘貼于卷裝牛皮紙上.
START 處牛皮紙必須全部覆蓋住TO-92 TAPE,然后用10cm透明膠帶粘貼封口固定.

卷裝牛皮紙：
65g牛皮紙，尺寸如右圖：

