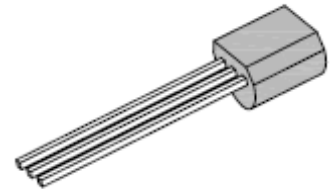


Small Signal General Purpose Transistors (PNP)

Features

- PNP Silicon Epitaxial Transistor for Switching and Amplifier Applications
- RoHS Compliance



Mechanical Data

TO-92



Case:	TO-92, Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	0.18 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	2N4403	Unit
V_{CEO}	Collector-Emitter Voltage	40	V
V_{CBO}	Collector-Base Voltage	40	V
V_{EB0}	Emitter-Base Voltage	5.0	V
I_C	Collector Current Continuous	600	mA
P_D	Power Dissipation at $T_A=25^{\circ}C$	625	mW
	Derate above $25^{\circ}C$	5.0	mW/ $^{\circ}C$
P_D	Power Dissipation at $T_C=25^{\circ}C$	1.5	W
	Derate above $25^{\circ}C$	12	mW/ $^{\circ}C$
R_{θJA}	Thermal Resistance Junction to Ambient Air	200	$^{\circ}C/W$
R_{θJC}	Thermal Resistance Junction to Case	83.3	$^{\circ}C/W$
T_J, T_{STG}	Operation and Storage Junction Temperature Range	-55 to +150	$^{\circ}C$

Small Signal General Purpose Transistors (PNP)

2N4403

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	2N4403		Unit	Conditions
		Min.	Max.		
V_{(BR)CBO}	Collector-Base Breakdown Voltage	40	-	V	I _C =100μA, I _E =0
V_{(BR)CEO}	Collector-Emitter Breakdown Voltage	40	-	V	I _C =1mA, I _B =0
V_{(BR)EBO}	Emitter-Base Breakdown Voltage	5.0	-	V	I _E =100μA, I _C =0
V_{CE(sat)} *	Collector Emitter Saturation Voltage	-	0.40	V	I _C =150mA, I _B =15mA
		-	0.75		I _C =500mA, I _B =50mA
V_{BE(sat)} *	Base Emitter Saturation Voltage	0.75	0.95	V	I _C =150mA, I _B =15mA
		-	1.30		I _C =500mA, I _B =50mA
I_{CEV}	Collector Cut-Off Current	-	100	nA	V _{EB} =0.4V, V _{CE} =35V
I_{BEV}	Base Cut-Off Current	-	100	nA	V _{EB} =0.4V, V _{CE} =35V
h_{FE} *	D.C. Current Gain	30	-		V _{CE} =1V, I _C =0.1mA
		60	-		V _{CE} =1V, I _C =1mA
		100	-		V _{CE} =1V, I _C =10mA
		100	300		V _{CE} =2V, I _C =150mA
		20	-		V _{CE} =2V, I _C =500mA
h_{ie}	Input Impedance	1.5	15	kΩ	V _{CE} =10V, I _C =1mA f=1KHz,
h_{re}	Voltage Feedback Ratio	0.1	8.0	x10 ⁻⁴	V _{CE} =10V, I _C =1mA f=1KHz,
f_T	Current Gain-Bandwidth Product	200	-	MHz	V _{CE} =10V, I _C =20mA, f=100MHz
C_{CBO}	Collector-Base Capacitance	-	8.5	pF	V _{CB} =10V, I _E =0 f=140KHz,
C_{EBO}	Emitter-Base Capacitance	-	30	pF	V _{EB} =0.5V, I _C =0 f=140KHz,
h_{fe}	Small Signal Current Gain	60	500		V _{CE} =10V, I _C =1mA f=1KHz,
h_{oe}	Output Admittance	1.0	100	μS	V _{CE} =10V, I _C =1mA f=1KHz,
t_d	Delay Time	-	15	nS	V _{CC} =30V, V _{EB} =2V I _C =150mA, I _{B1} =15mA
t_r	Rise Time	-	20	nS	
t_s	Storage Time	-	225	nS	V _{CC} =30V, I _C =150mA I _{B1} =I _{B2} =15mA
t_f	Fall Time	-	30	nS	

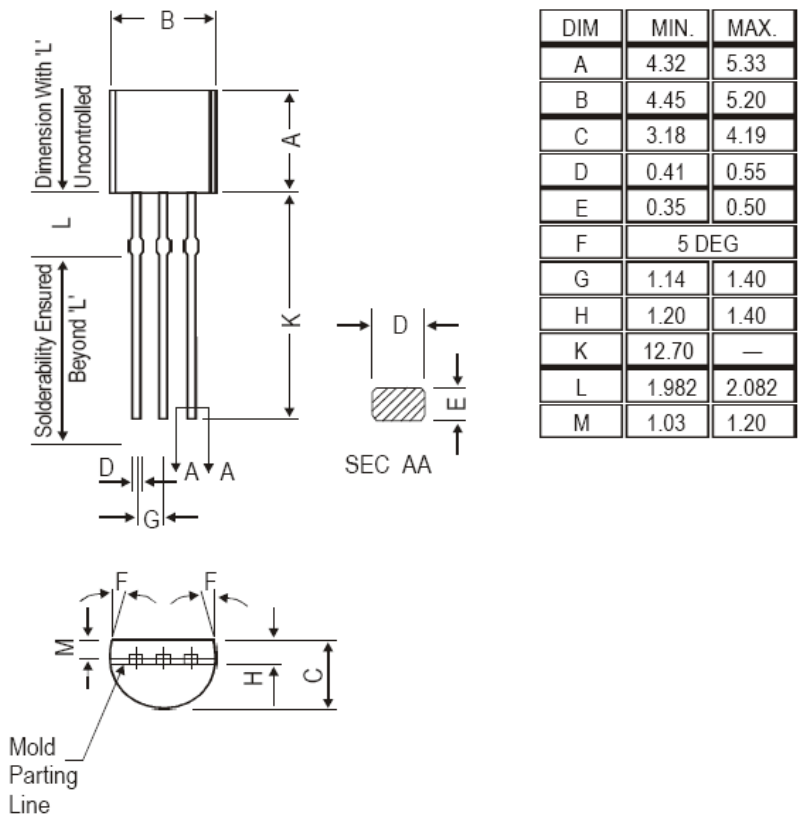
*Pulse Test: Pulse Width≤300μs, Duty Cycle≤2%

Small Signal General Purpose Transistors (PNP)

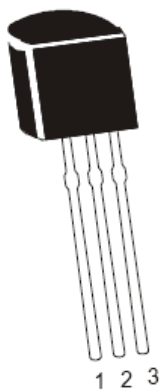
2N4403

Dimensions in mm

TO-92



PIN CONFIGURATION
1. EMITTER
2. BASE
3. COLLECTOR



Small Signal General Purpose Transistors (PNP)

2N4403

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