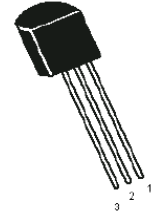




Features:

- Devices with breakdown voltages of 160V minimum, for applications requiring relatively low collector current, such as lamp drivers and neon tubes
- Designed for general purpose applications requiring high breakdown voltages
- Low saturation voltages and low capacitance



Pin Configuration:

1. Collector
2. Base
3. Emitter

Absolute Maximum Ratings

Parameters	Symbol	Value	Units
Collector Emitter Voltage	V_{CEO}	300	V
Collector Base Voltage	V_{CBO}		
Emitter Base Voltage	V_{EBO}		
Collector Current Continuous	I_C	500	mA
Power Dissipation at $T_a = 25^\circ\text{C}$ Derate above 25°C	P_D	625	W
Power Dissipation at $T_c = 25^\circ\text{C}$ Derate above 25°C		5	
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-55 to +150	$^\circ\text{C}$

Thermal Resistance

Junction to Ambient	$R_{th(j-a)}$	200	$^\circ\text{C/W}$
Junction to Case	$R_{th(j-c)}$	83.3	

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise specified)

Description	Symbol	Test Condition	Minimum	Maximum	Unit
Collector-Emitter Voltage	V_{CEO}^*	$I_C = 1\text{mA}, I_B = 0$	300	-	V
Collector-Base Voltage	V_{CBO}	$I_C = 100\mu\text{A}, I_E = 0$		-	
Emitter-Base Voltage	V_{EBO}	$I_E = 10\mu\text{A}, I_C = 0$	5	-	
Collector-Cut off Current	I_{CBO}	$V_{CB} = 200\text{V}, I_E = 0$	-	250	nA

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

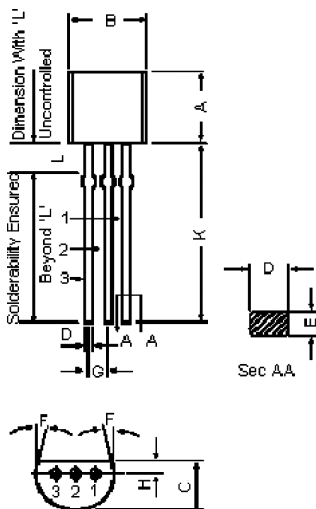
Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise specified)

Description	Symbol	Test Condition	Minimum	Maximum	Unit
Emitter-Cut off Current	I_{EBO}	$V_{EB} = 3\text{V}, I_C = 0$	-	100	nA
DC Current Gain	h_{FE}^*	$I_C = 1\text{mA}, V_{CE} = 10\text{V}$ $I_C = 10\text{mA}, V_{CE} = 10\text{V}$ $I_C = 30\text{mA}, V_{CE} = 10\text{V}$	25	-	-
			40	-	-
			25	-	-
Collector Emitter Saturation Voltage	$V_{CE(sat)}^*$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	-	0.5	V
Base Emitter Saturation Voltage	$V_{BE(sat)}^*$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	-	0.9	

Dynamic Characteristics

Transition Frequency	f_T	$V_{CE} = 20\text{V}, I_C = 10\text{mA}$ $f = 100\text{MHz}$	50	-	MHz
Collector Base Capacitance	C_{CB}	$V_{CB} = 20\text{V}, I_E = 0$ $f = 1\text{MHz}$	-	6	pF

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



Dimensions	Minimum	Maximum
A	4.32	5.33
B	4.45	5.2
C	3.18	4.19
D	0.41	0.55
E	0.35	0.5
F	5°	
G	1.14	1.4
H		1.53
K	12.7	-

Dimensions : Millimetres

Pin Configuration:

1. Collector
2. Base
3. Emitter

Part Number Table

Description	Part Number
Transistor, PNP, TO-92	MPSA92

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