



Micro Commercial Components

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BC639

Features

- Complement to BC640
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: BC639

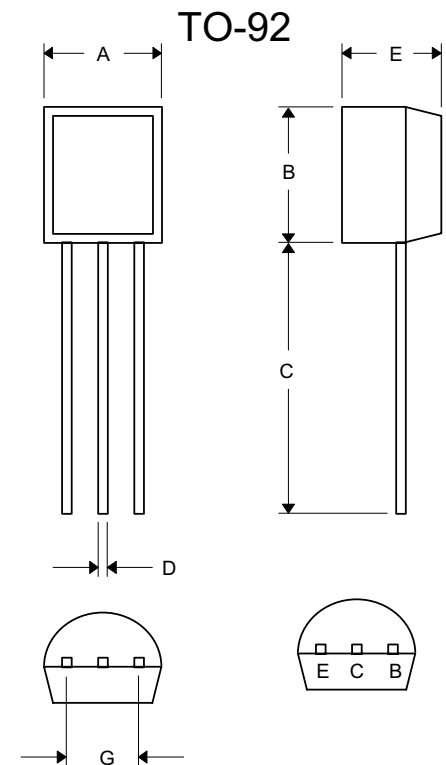
NPN Epitaxial Silicon Transistors

Maximum Ratings

Symbol	Rating	Value	Unit
V_{CE0}	Collector-Emitter Voltage	80	V
V_{CBO}	Collector-Base Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current	1.0	A
P_C	Collector Power Dissipation	1	W
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1\text{mA}, I_B=0$)	80	---	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\ \mu\text{A}, I_E=0$)	100	---	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=100\ \mu\text{A}, I_C=0$)	5.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=30\text{Vdc}, I_E=0$)	---	---	0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0\text{Vdc}, I_C=0$)	---	---	0.1	μA
h_{FE}	DC Current Gain ($V_{CE}=2\text{Vdc}, I_C=5\text{mA}$) ($V_{CE}=2\text{Vdc}, I_C=150\text{mA}$) ($V_{CE}=2\text{Vdc}, I_C=500\text{mA}$)	25 40 25	---	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500\text{mA}, I_B=50\text{mA}$)	---	---	0.5	Vdc
V_{BE}	Base-Emitter Voltage ($I_C=500\text{mA}, V_{CE}=2\text{Vdc}$)	---	---	1.0	Vdc
f_T	Transition Frequency ($V_{CE}=5.0\text{Vdc}, I_C=50\text{mA}, f=100\text{MHz}$)	100	---	---	MHz



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	.010	.104	2.44	2.64	



Micro Commercial Components™

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