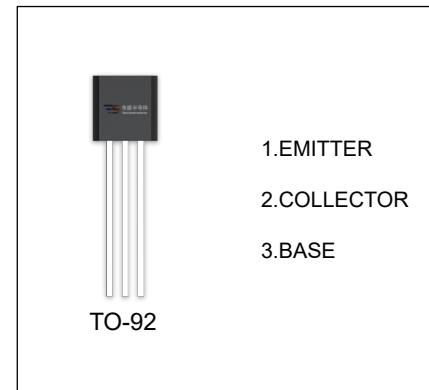


BC636 / BC638 / BC640 TRANSISTOR (PNP)

FEATURES

High current transistors



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
BC636	TO-92	Bulk	1000pcs/Bag
BC636-TA	TO-92	Tape	2000pcs/Box
BC638	TO-92	Bulk	1000pcs/Bag
BC638-TA	TO-92	Tape	2000pcs/Box
BC640	TO-92	Bulk	1000pcs/Bag
BC640-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	BC636	-45
		BC638	-60
		BC640	-100
V_{CEO}	Collector-Emitter Voltage	BC636	-45
		BC638	-60
		BC640	-80
V_{EBO}	Emitter-Base Voltage	-5	V
I_c	Collector Current -Continuous	-1	A
P_c	Collector Power Dissipation	0.83	W
R_{eJA}	Thermal Resistance, junction to Ambient	150	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

T_a=25 °C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA,I _E =0 BC636 BC638 BC640	-45 -60 -100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0 BC636 BC638 BC640	-45 -60 -80			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V,I _C =0			- 0.1	μA
DC current gain	h _{FE(1)}	V _{CE} = -2V,I _C =- 5mA	40			
	h _{FE(2)}	V _{CE} = -2V,I _C =- 150mA	63		250	
	h _{FE(3)}	V _{CE} = -2V,I _C =- 500mA	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =- 500mA,I _B = -50mA			-0.5	V
Base-emitter voltage	V _{BE}	V _{CE} = -2V,I _C = -500mA			- 1	V
Transition frequency	f _T	V _{CE} = -5V,I _C =- 50mA,f=100MHz	100			MHz

CLASSIFICATION OF h_{FE(2)}

Rank	BC636-10	BC636-16, BC638-16, BC640-16
Range	63-160	100-250