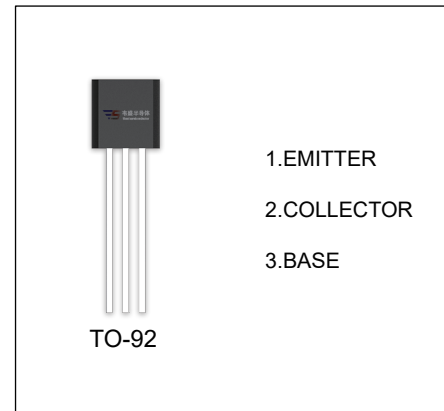


BC635 / BC637 / BC639 TRANSISTOR (NPN)

FEATURES

- High current transistors



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
BC635	TO-92	Bulk	1000pcs/Bag
BC635-TA	TO-92	Tape	2000pcs/Box
BC637	TO-92	Bulk	1000pcs/Bag
BC637-TA	TO-92	Tape	2000pcs/Box
BC639	TO-92	Bulk	1000pcs/Bag
BC639-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Emitter Voltage	BC635	45
		BC637	60
		BC639	100
V_{CEO}	Collector-Emitter Voltage	BC635	45
		BC637	60
		BC639	80
V_{EBO}	Emitter-Base Voltage	5	V
I_c	Collector Current -Continuous	1	A
P_c	Collector Power Dissipation	0.83	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

$T_a=25\text{ }^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$ BC635	45			V
		BC637	60			V
		BC639	80			V
Collector cut-off current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}, I_B=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=2\text{V}, I_C=5\text{mA}$	25			
	$h_{FE(2)}$	$V_{CE}=2\text{V}, I_C=150\text{mA}$ BC635	40		250	
		BC637-10/BC639-10	63		160	
		BC637-16/BC639-16	100		250	
	$h_{FE(3)}$	$V_{CE}=2\text{V}, I_C=500\text{mA}$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			0.5	V
Base-emitter voltage	V_{BE}	$V_{CE}=2\text{V}, I_C=500\text{mA}$			1	V
Transition frequency	f_T	$V_{CE}=5\text{V}, I_C=10\text{mA}, f=50\text{MHz}$		100		MHz

