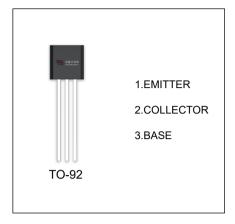


BC337/BC338 TRANSISTOR (NPN)

FEATURES

Power dissipation



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
BC337	TO-92	Bulk	1000pcs/Bag
BC337-TA	TO-92	Tape	2000pcs/Box
BC338	TO-92	Bulk	1000pcs/Bag
BC338-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter		Value	Unit	
V _{CBO}	Collector-Base Voltage	BC337	50	V	
		BC338	30	V	
V _{CEO}	Collector-EmitterVoltage	BC337	45	V	
		BC338	25	V	
V _{EBO}	Emitter-Base Voltage		5	V	
Ic	Collector Current -Continuous		800	mA	
P _D	Total Device Dissipation		625	mW	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range		-55-150	°C	



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{CBO}	I _C = 100uA, I _E =0				
BC337			50			V
BC338			30			V
Collector-emitter breakdown voltage		I_C = 10mA , I_B =0				
BC337	V_{CEO}		45			V
BC338			25			V
Emitter-base breakdown voltage	V_{EBO}	I _E = 10uA, I _C =0	5			V
Collector cut-off current BC337	I _{CBO}	V _{CB} = 45V, I _E =0			0.1	uA
BC338		V_{CB} = 25V, I_E =0			0.1	uA
Collector cut-off current BC337		V_{CE} = 40V, I_{B} =0			0.2	uA
BC338	I _{CEO}	V_{CE} = 20V, I_{B} =0			0.2	uA
Emitter cut-off current	I _{EBO}	V_{EB} = 4 V, I_{C} =0			0.1	uA
BC337/BC338			100		630	
BC337-16/BC338-16	h	V _{CE} =1V, I _C = 100mA	100		250	
BC337-25/BC338-25	h _{FE(1)}	VCE-IV, IC- IOUIIIA	160		400	
BC337-40/BC338-40			250		630	
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C = 300mA	60			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =500mA, I _B = 50mA			0.7	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 500mA, I _B =50mA			1.2	V
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C = 300mA			1.2	V
Transition frequency	f _T	V_{CE} = 5V, I_{C} = 10mA f = 100MHz	210			MHz
Collector Output Capacitance	Cob	V _{CB} =10V,I _E =0 f=1MHZ		15		pF

CLASSIFICATION OF $h_{\text{FE}(1)}$

	BC337-16/BC338-16	BC337-25/BC338-25	BC337-40/BC338-40
RANK	A	В	С
RANGE	100-250	160-400	250-630



