



TO-92 Plastic-Encapsulate Transistors

BC328 TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.625 W ($T_{amb}=25^{\circ}C$)

Collector current

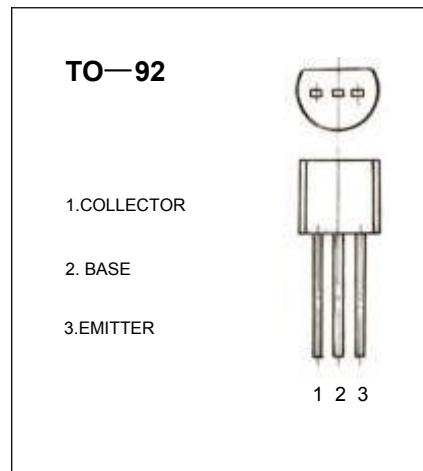
I_{CM} : 0.8 A

Collector-base voltage

$V_{(BR)CBO}$: 30 V

Operating and storage junction temperature range

T_J , T_{stg} : -55°C to +150°C



ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A$, $I_E=0$	-30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA$, $I_B=0$	-25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A$, $I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-25 V$, $I_E=0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=-20 V$, $I_B=0$			-0.2	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-4 V$, $I_C=0$			-0.1	μA
DC current gain(note)	$H_{FE(1)}$	$V_{CE}=1V$, $I_C=100mA$	100		630	
	$H_{FE(2)}$	$V_{CE}=1V$, $I_C=300mA$	40			
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	$V_{CE}=5V$, $I_C=10mA$ $f=100MHz$	260			MHz

CLASSIFICATION OF HFE

Rank	1	2	3
Range	100-250	160-400	250-630