

BC347 TRANSISTOR (NPN)**FEATURES**

Power dissipation

 P_{CM} : 0.3 W ($T_{amb}=25^\circ C$)

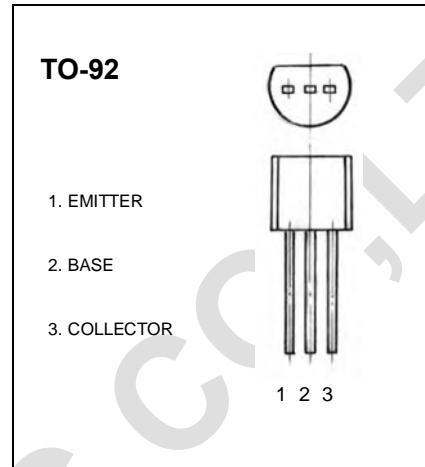
Collector current

 I_{CM} : 0.1 A

Collector-base voltage

 $V_{(BR)CBO}$: 50 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	$V_{(BR)CBO}$	$I_C= 100\mu A, I_E=0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C= 1mA, I_B=0$	45			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E= 100\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=50V, I_E=0$			0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=35V, I_B=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}= 3V, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=5 V, I_C= 2mA$	40		450	
Collector-emitter saturation voltage	V_{CESat}	$I_C= 10mA, I_B= 1mA$			0.3	V
Base-emitter saturation voltage	V_{BESat}	$I_C= 10mA, I_B= 1mA$			1	V
Transition frequency	f_T	$V_{CE}=5V, I_C=10mA, f=30MHz$	125			MHz