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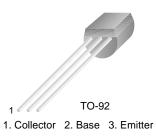
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BC183 NPN General Purpose Amplifer



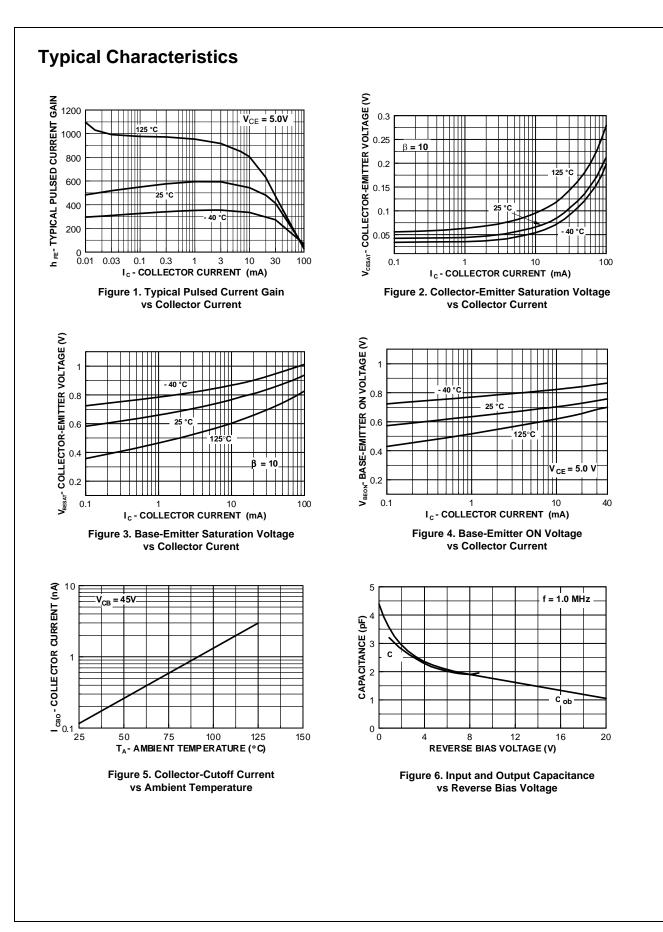
Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	45	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current (DC)	100	mA
P _C	Collector Dissipation (T _a =25°C)	350	mW
T _{STG} , T _J	Storage Junction Temperature Range	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max	Units
BV _{CBO}	Collector-Base Voltage	I _C = 10μA	45		V
BV _{CEO}	Collector-Emitter Voltage	I _C = 2mA	30		V
BV _{EBO}	Emitter-Base Voltage	I _E = 10μA	5		V
I _{CBO}	Collector Cut-off Current	V _{CB} = 30V		15	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = 4.0V		15	nA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_C = 10\mu A$ $V_{CE} = 5V, I_C = 100mA$	40 80		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_{C} = 10mA, I_{B} = 0.5mA$ $I_{C} = 100mA, I_{B} = 5.0mA$		0.25 0.6	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 100mA, I _B = 5mA		1.2	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = 5V, I_C = 2mA$ 0.5		0.7	V
C _{OB}	Output Capacitance	V _{CE} = 10V, f = 1.0MHz		5	pF
f _T	Current gain Bandwidth Product	$V_{CE} = 5V$, $I_C = 10$ mA, f = 100MHz	150		MHz
h _{fe}	Small Signal Current Gain	$V_{CE} = 5V$, $I_C = 2mA$ f = 1KHz	125	900	
NF	Noise Figure	$V_{CE} = 5V$, $I_C = 200mA$ $R_G = 2K\Omega$, f = 1KHz		10	dB

June 2007





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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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