imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



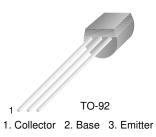
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





BC183 NPN General Purpose Amplifer



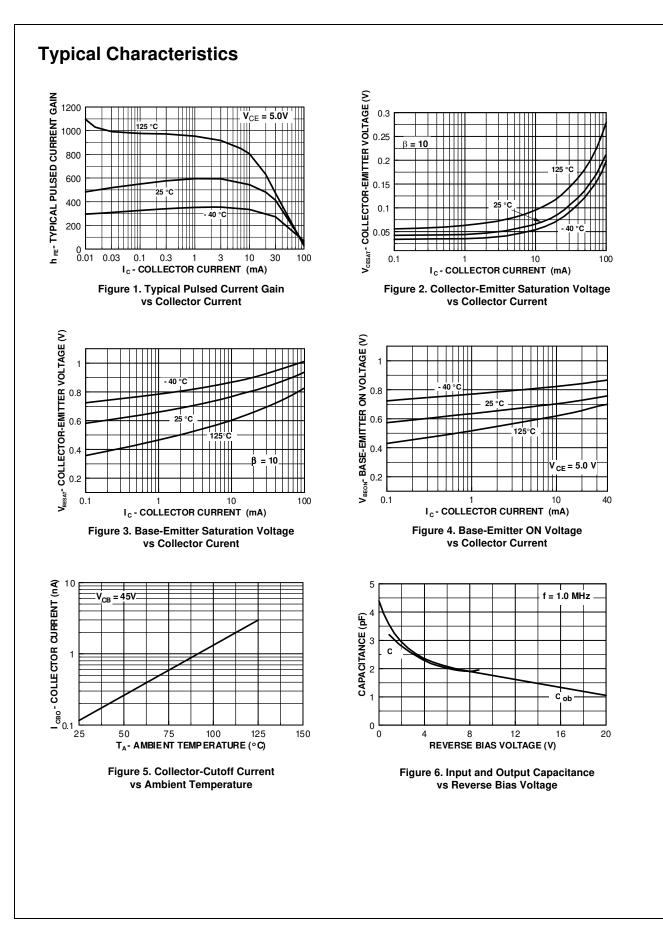
Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

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	$\label{eq:Vce} \begin{array}{l} V_{CE}=5V,\ I_{C}=10\mu A\\ V_{CE}=5V,\ I_{C}=100mA \end{array}$	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 0.55 0.7		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	$V_{CE} = 5V$, $I_C = 200$ mA $R_G = 2K\Omega$, f = 1KHz		10	dB

June 2007





SEMICONDUCTOR

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Product Status	Definition
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