



BC856,BC857,BC858,BC859 SERIES

ELECTRICAL CHARACTERISTICS

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Collector - Emitter Breakdown Voltage BC856A,B BC857A,B,C BC858A,B,C,BC859B,C	$V_{(BR)CEO}$	$I_C=-10mA, I_B=0$	-65 -45 -30	-	-	V
Collector - Base Breakdown Voltage BC856A,B BC857A,B,C BC858A,B,C,BC859B,C	$V_{(BR)CBO}$	$I_C=-10\mu A, I_E=0$	-80 -50 -30	-	-	V
Emitter - Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-1.0\mu A, I_C=0$	-5.0	-	-	V
Emitter-Base Cutoff Current	I_{EBO}	$V_{EB}=-5V$	-	-	-100	nA
Collector-Base Cutoff Current	I_{CBO}	$V_{CB}=-30V, I_E=0$ $V_{CB}=-30V, I_E=0, T_J=150^\circ C$	-	-	-15 -4.0	nA μA
DC Current Gain BC856A,BC857A,BC858A BC856B,BC857B,BC858B,BC859B BC857C,BC858C,BC859C	h_{FE}	$I_C=-10\mu A, V_{CE}=-5V$	-	90 150 270	-	-
DC Current Gain BC856A,BC857A,BC858A BC856B,BC857B,BC858B,BC859B BC857C,BC858C,BC859C	h_{FE}	$I_C=-2.0mA, V_{CE}=-5V$	110 220 420	180 290 520	220 475 800	-
Collector - Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=-10mA, I_B=-0.5mA$ $I_C=-100mA, I_B=-5.0mA$	-	-	-0.3 -0.65	V
Base - Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=-10mA, I_B=-0.5mA$ $I_C=-100mA, I_B=-5.0mA$	-	-0.7 -0.9	-	V
Base - Emitter On Voltage	$V_{BE(ON)}$	$I_C=-2mA, V_{CE}=-5.0V$ $I_C=-10mA, V_{CE}=-5.0V$	-0.60 -	- -	-0.75 -0.82	V
Collector - Base Capacitance	C_{CB}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	-	4.5	pF
Current-Gain-Bandwidth Product	F_T	$I_C=-10mA, V_{CE}=-5.0V, f=100MHz$	-	200	-	MHz



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ELECTRICAL CHARACTERISTICS CURVES

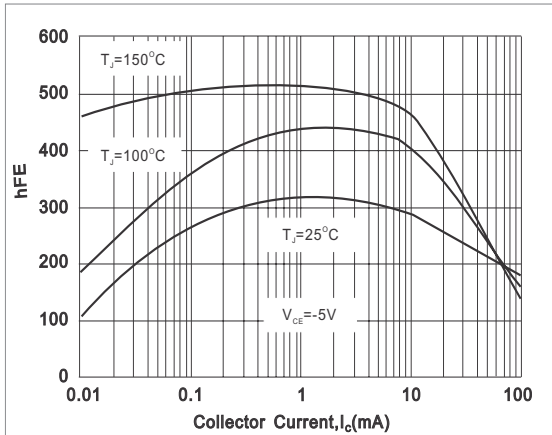


Fig.1- TYPICAL h_{FE} vs. Collector Current

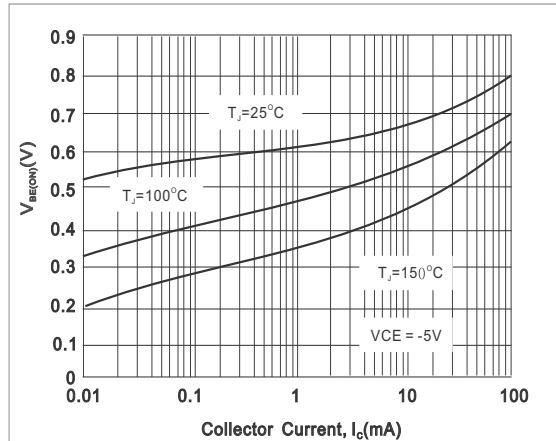


Fig.2- TYPICAL $V_{BE(on)}$ vs. Collector Current

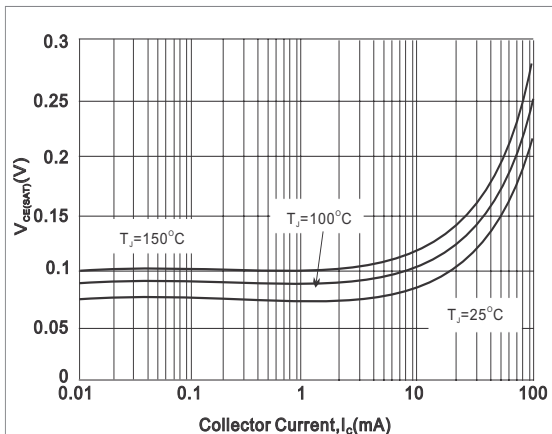


Fig.3- TYPICAL $V_{CE(sat)}$ vs. Collector Current

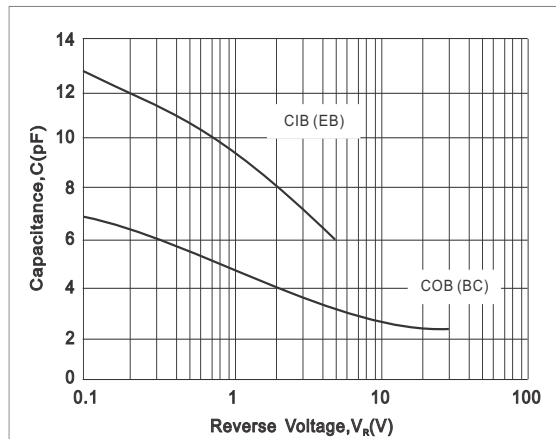
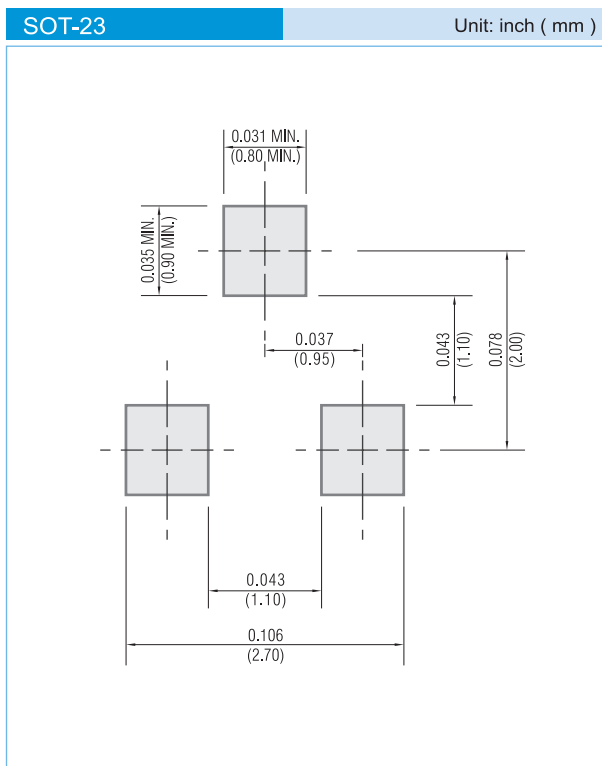


Fig.4- TYPICAL CAPACITANCES vs. REVERSE VOLTAGE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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