



BD237

NPN EPITAXIAL SILICON TRANSISTOR

■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$, unless otherwise noted)

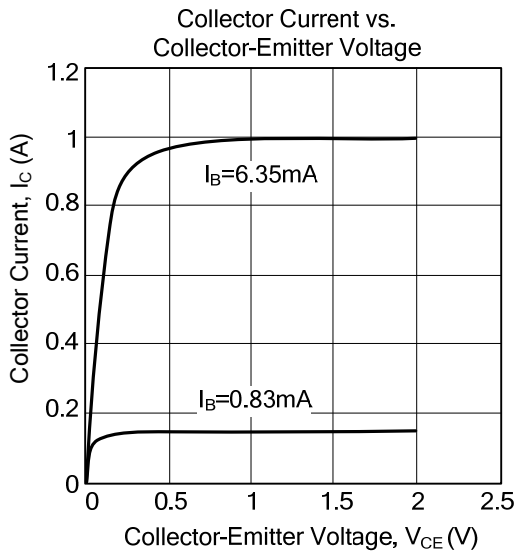
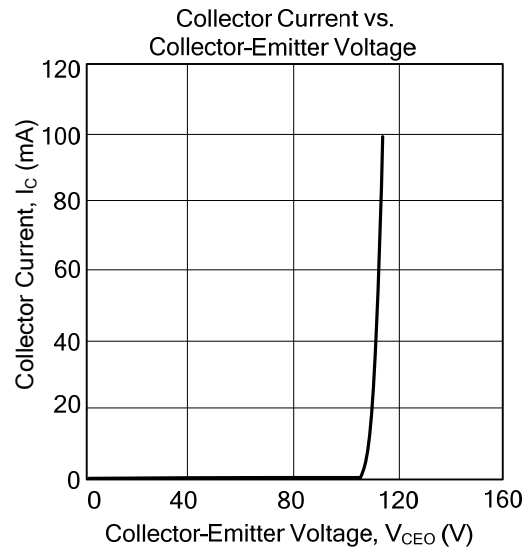
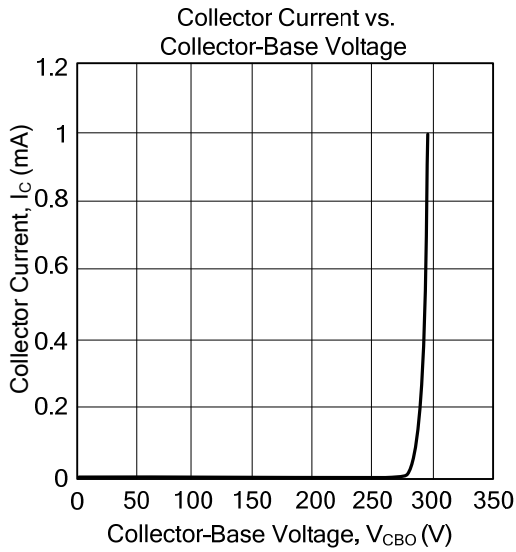
PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	2	A
Collector Dissipation	P_C	1.25	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~150	$^\circ\text{C}$

Note: Absolute maximum ratings are stress ratings only and functional device operation is not implied. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=1\text{mA}, I_E=0$	100			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=100\text{mA}, I_B=0$	80			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=1\text{mA}, I_C=0$	5			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=100\text{V}, I_E=0$			100	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			1	mA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1\text{A}, I_B=100\text{mA}$			0.6	V
DC Current Gain	$h_{FE}(1)$	$I_C=150\text{mA}, V_{CE}=2\text{V}$	40			
	$h_{FE}(2)$	$I_C=1\text{A}, V_{CE}=2\text{V}$	25			
Transition Frequency	f_T	$I_C=250\text{mA}, V_{CE}=10\text{V}, f=10\text{MHz}$	3			MHZ

■ TYPICAL CHARACTERISTICS



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