

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	100	V
Collector-Emitter Voltage		V_{CEO}	100	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current	DC	I_C	3	A
	Pulse		5	A
Base Current		I_B	1	A
Collector Dissipation ($T_C=25^\circ\text{C}$)	TO-126	P_C	10	W
	TO-220		40	W
	TO-252		15	W
Junction Temperature		T_J	+150	$^\circ\text{C}$
Storage Temperature		T_{STG}	-65 ~ +150	$^\circ\text{C}$

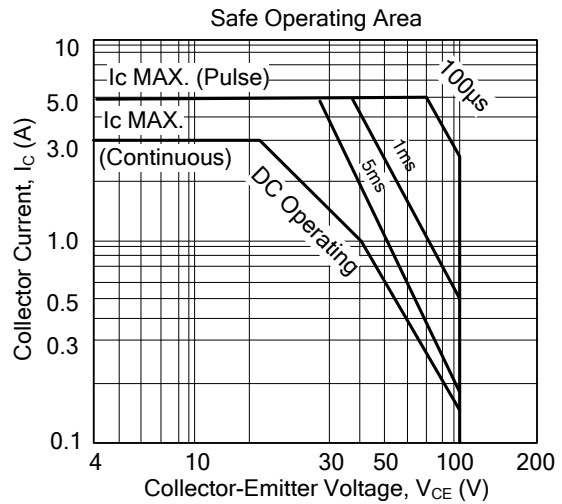
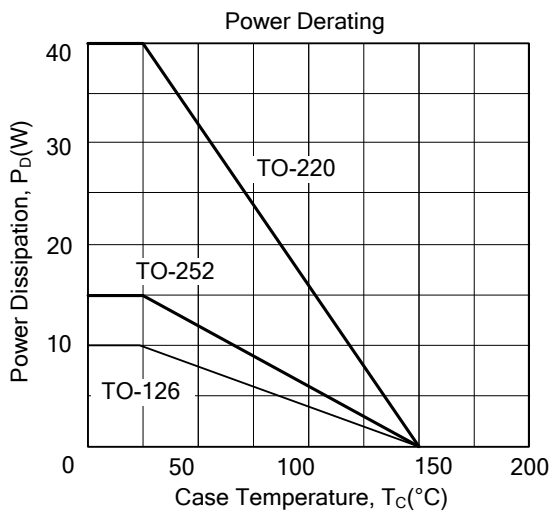
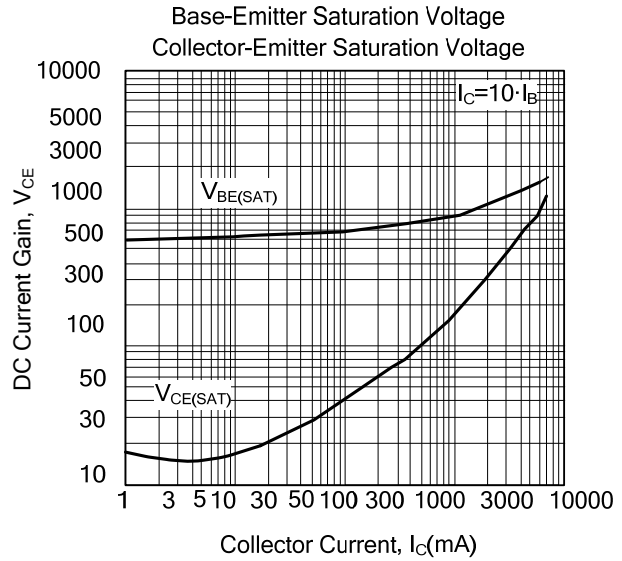
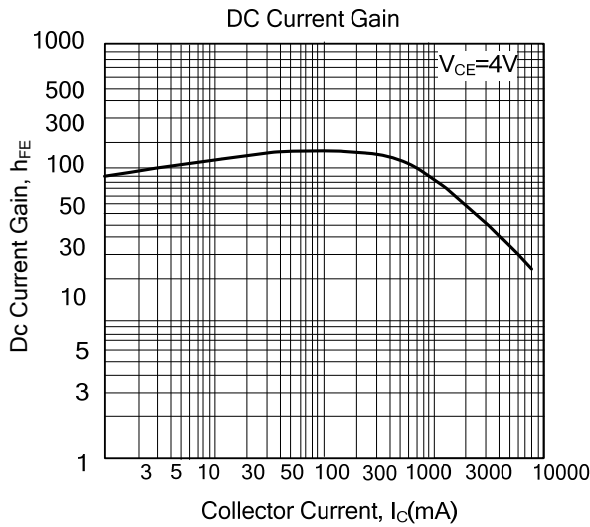
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage (Note)	BV_{CEO}	$I_C=30\text{mA}, I_B=0$	100			V
Collector Cutoff Current	I_{CES}	$V_{CB}=100\text{V}, V_{EB}=0$			200	μA
Collector Cutoff Current	I_{CEO}	$V_{CE}=60\text{V}, I_B=0$			0.3	mA
Emitter Cutoff Current	I_{EBO}	$V_{BE}=5\text{V}, I_C=0$			1	mA
Collector-Emitter Saturation Voltage (Note)	$V_{CE(SAT)}$	$I_C=3\text{A}, I_B=375\text{mA}$			1.2	V
Base-Emitter On Voltage (Note)	$V_{BE(ON)}$	$I_C=3\text{A}, V_{CE}=4\text{V}$			1.8	V
DC Current Gain (Note)	h_{FE1}	$I_C=1\text{A}, V_{CE}=4\text{V}$	25			
	h_{FE2}	$I_C=3\text{A}, V_{CE}=4\text{V}$	10		50	
Current Gain Bandwidth Product	f_T	$I_C=0.5\text{A}, V_{CE}=10\text{V}, f=1\text{MHz}$	3			MHz

Note: Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$

TYPICAL CHARACTERISTICS



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