

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

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	400	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	200	mA
Collector Current (PULSE)	I_{CP}	400	mA
Collector Power Dissipation	P_C	1.3	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +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.

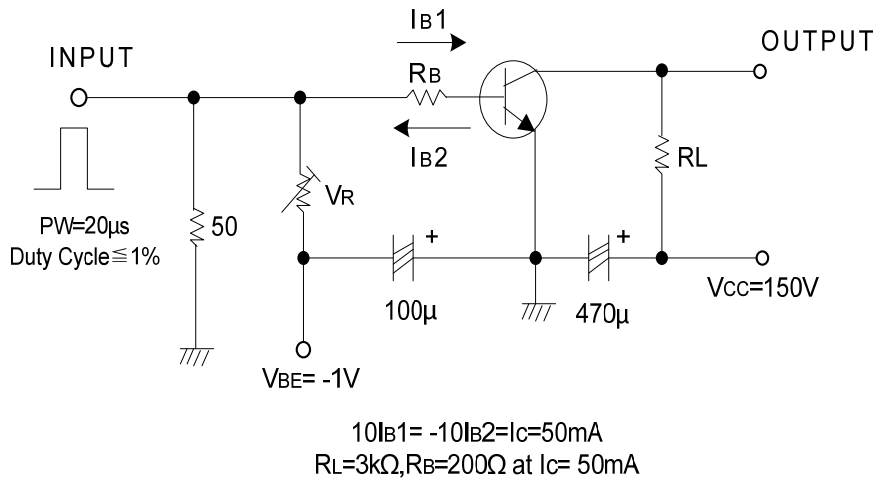
■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collect-Base Breakdown Voltage	BV_{CBO}	$I_C=10\mu\text{A}, I_E=0$	400			V
Collect-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1\text{mA}, I_B=0, R_{BE}=\infty$	400			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=10\mu\text{A}, I_C=0$	5			V
Collector Cutoff Current	I_{CBO}	$V_{CB}=300\text{V}, I_E=0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			0.1	μA
DC Current Transfer Ratio	h_{FE}	$V_{CE}=10\text{V}, I_C=50\text{mA}$	60		200	
Collect-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=50\text{mA}, I_B=5\text{mA}$		0.6		V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			1.0	V
Output Capacitance	C_{OB}	$V_{CB}=30\text{V}, f=1\text{MHz}$		4		pF
Reverse Transfer Capacitance	C_{RE}	$V_{CB}=30\text{V}, f=1\text{MHz}$		3		pF
Gain-Bandwidth Product	f_T	$V_{CE}=30\text{V}, I_C=10\text{mA}$		70		MHz
Turn-on Time	T_{ON}	See test circuit		0.25		μs
Turn-off Time	T_{OFF}	See test circuit		5.0		μs

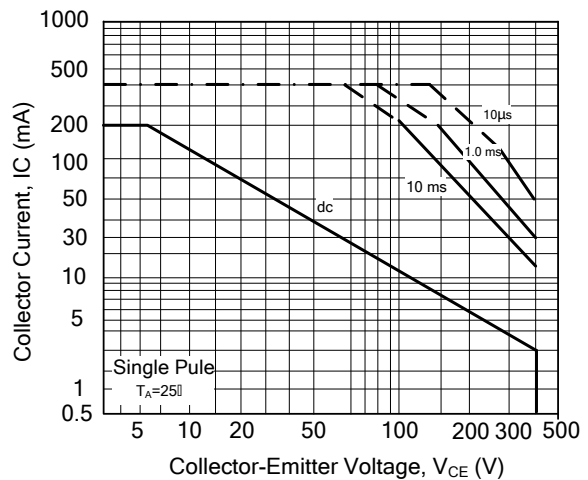
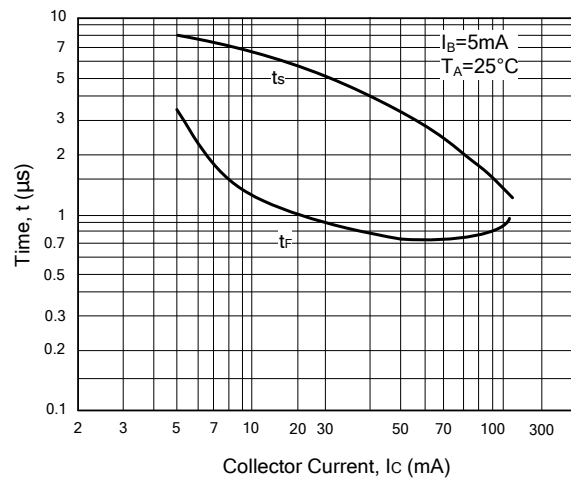
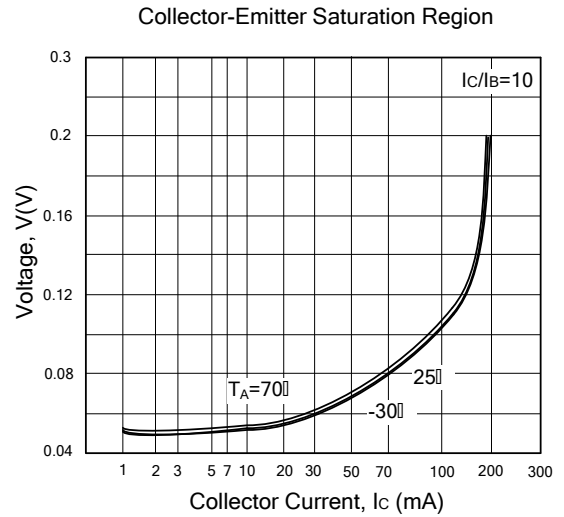
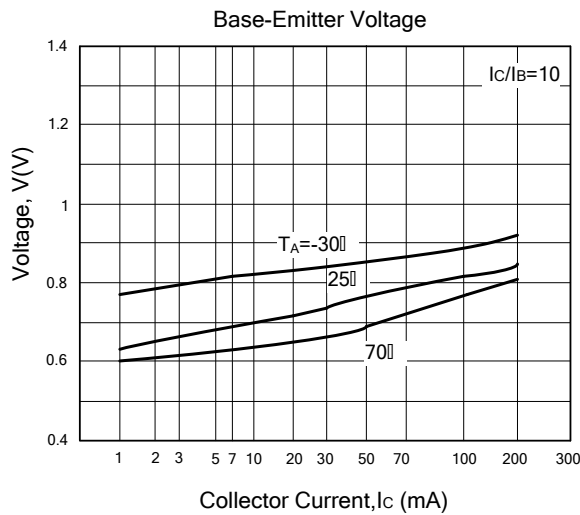
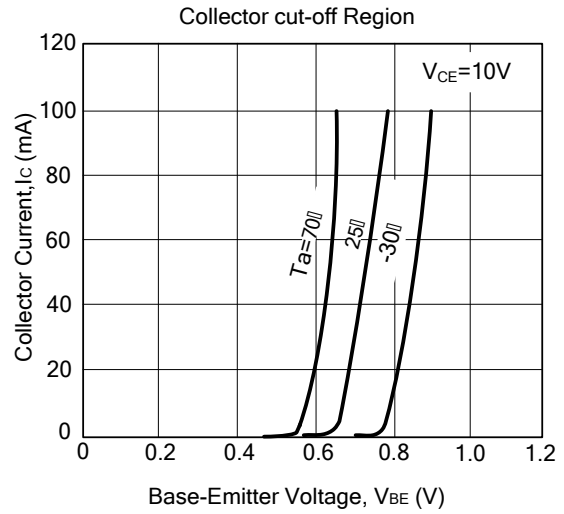
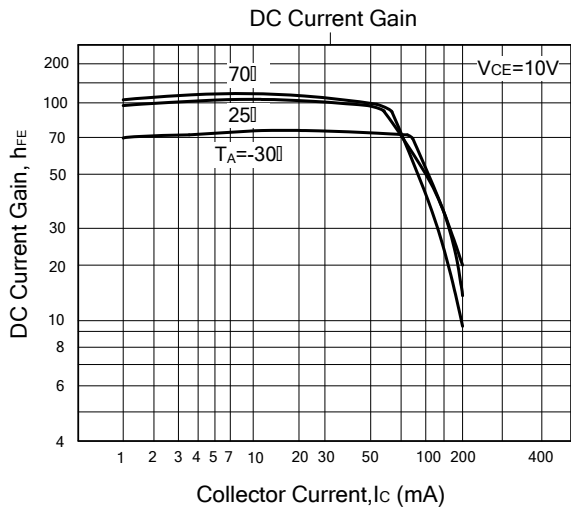
■ CLASSIFICATION OF h_{FE}

RANK	D	E
RANGE	60-120	100-200

■ TEST CIRCUIT (Unit : resistance : Ω , capacitance : F)

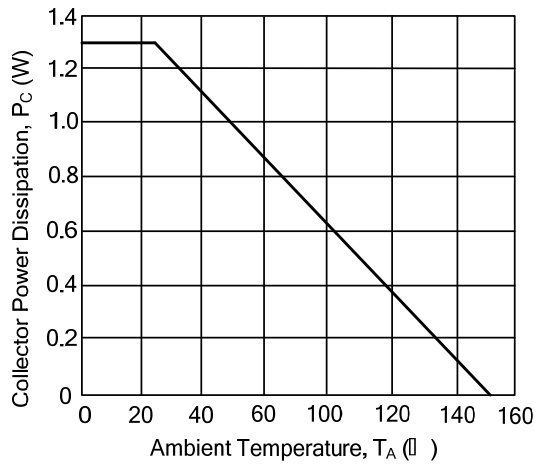


■ TYPICAL CHARACTERISTICS



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Collector Power Dissipation vs. Ambient Temperature



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