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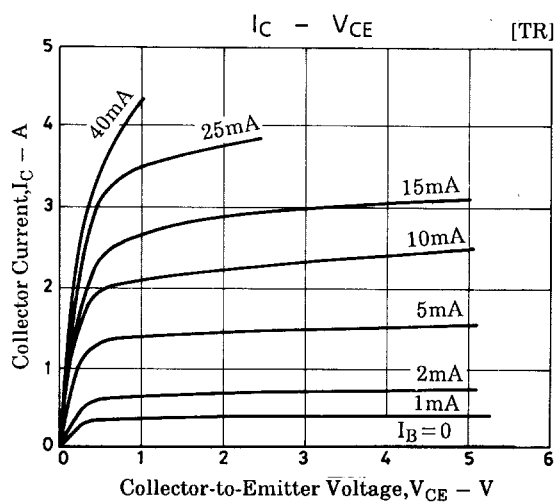
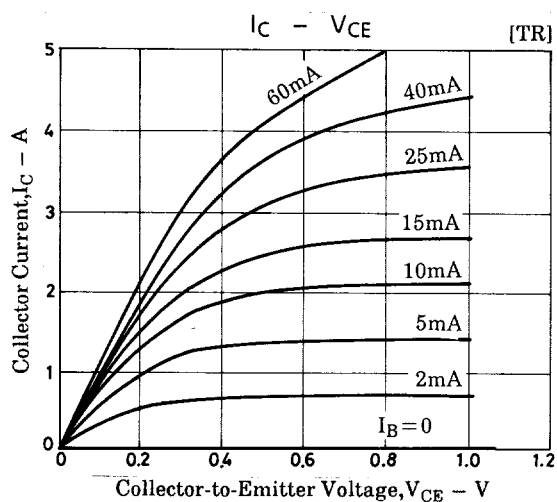
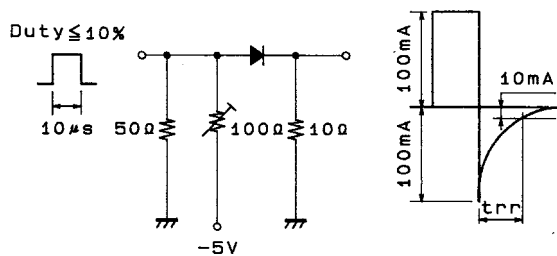
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
[TR]						
Collector Cutoff Current	I_{CBO}	$V_{CB}=20V, I_E=0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4V, I_C=0$			0.1	μA
DC Current Gain	h_{FE1}	$V_{CE}=2V, I_C=500mA$	200			
	h_{FE2}	$V_{CE}=2V, I_C=3A$	140			
Gain-Bandwidth Product	f_T	$V_{CE}=10V, I_C=50mA$		200		MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, f=1MHz$		30		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=3A, I_B=60mA$		0.3	0.4	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=3A, I_B=60mA$		0.95	1.35	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	30			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	10			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	6			V
[SBD]						
Reverse Voltage	V_R	$I_R=300\mu A$	30			V
Forward Voltage	V_F	$I_F=700mA$			0.55	V
Reverse Current	I_R	$V_R=15V$			80	μA
Interterminal Capacitance	C	$V_R=10V, f=1MHz$		28		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100mA$, See specified Test Circuit.			10	ns
Thermal Resistance	R_{thj-a}	Mounted on ceramic board (250mm ² ×0.8mm)		170		°C/W

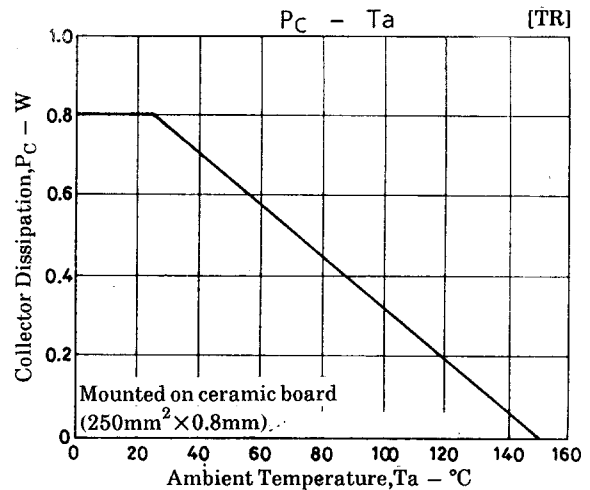
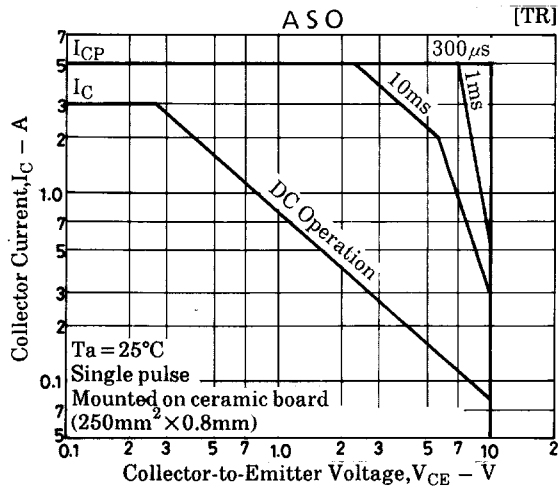
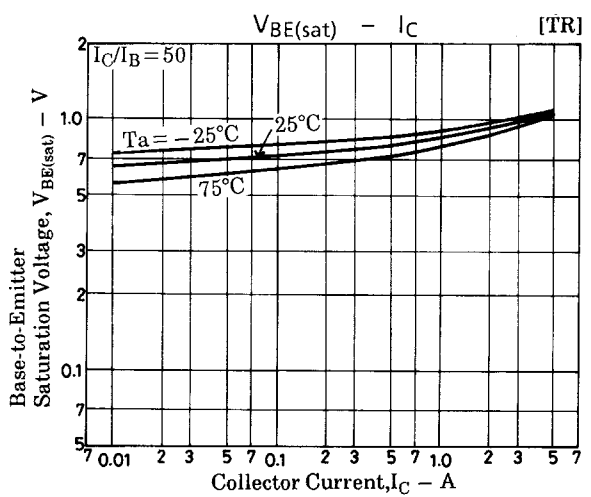
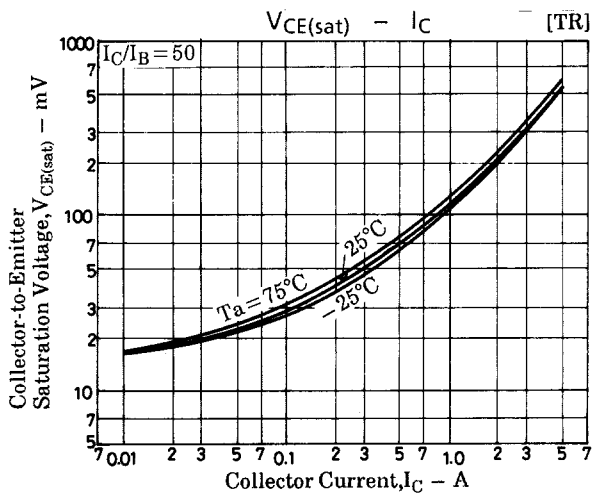
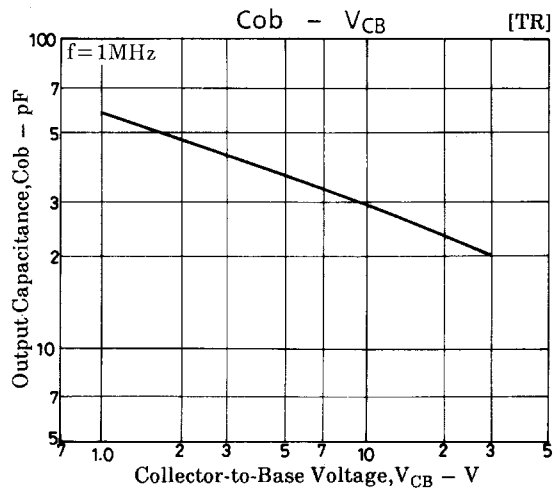
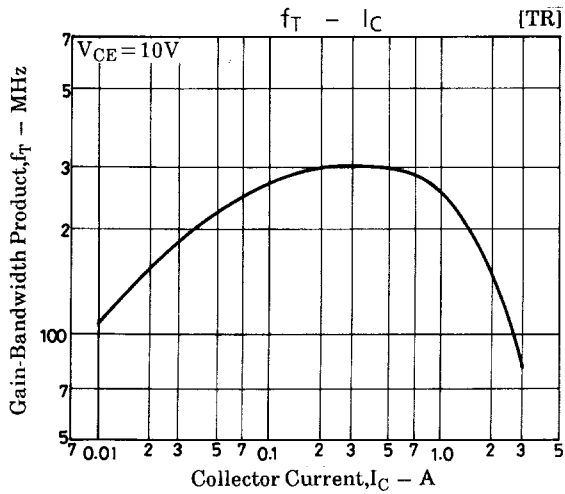
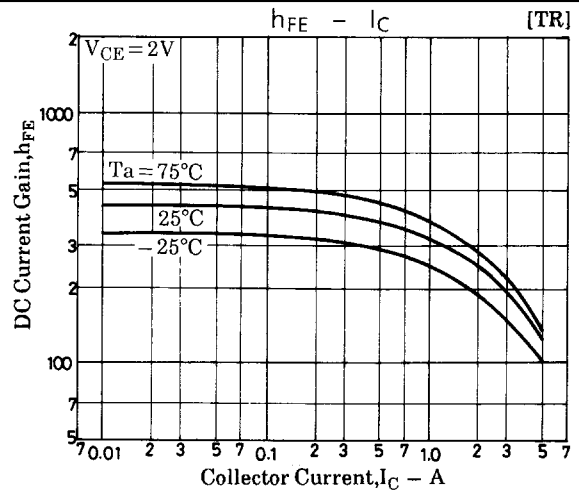
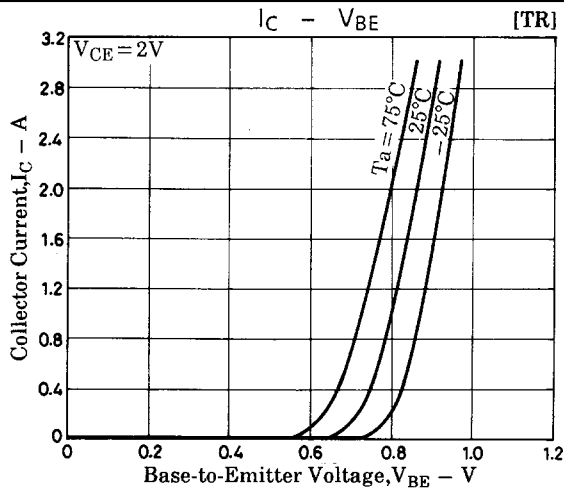
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Switching Time Test Circuit

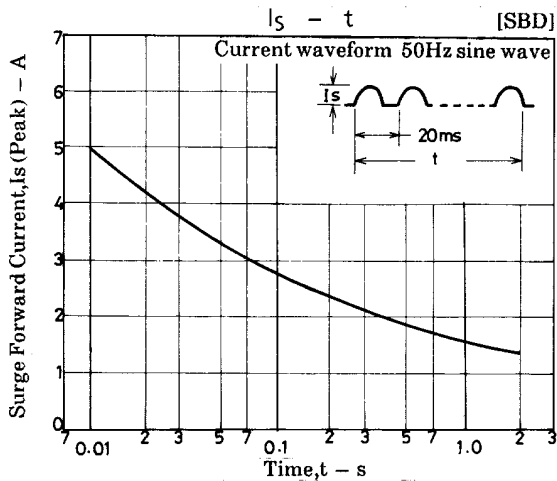
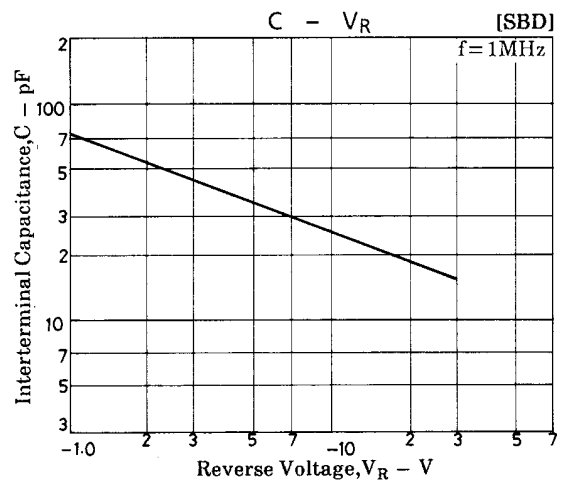
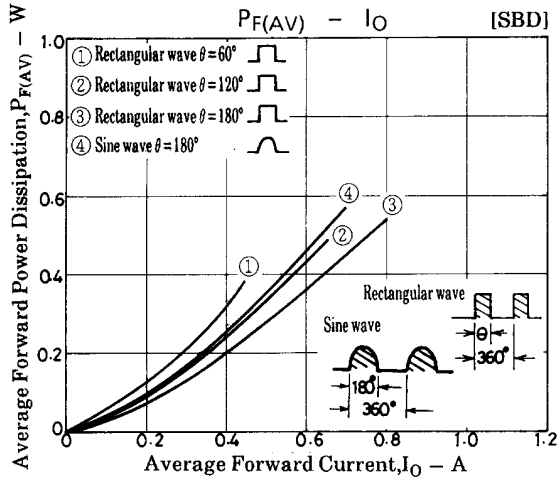
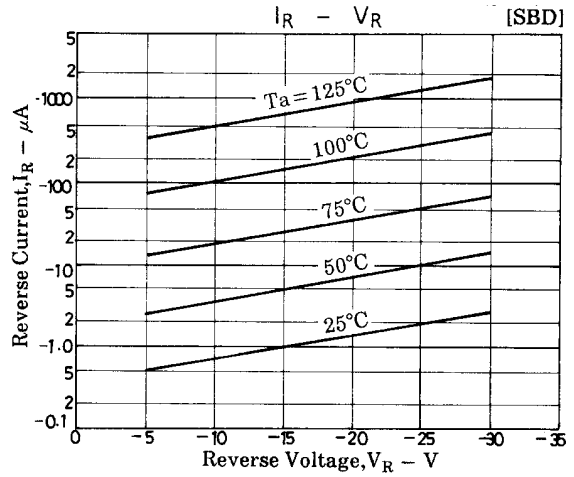
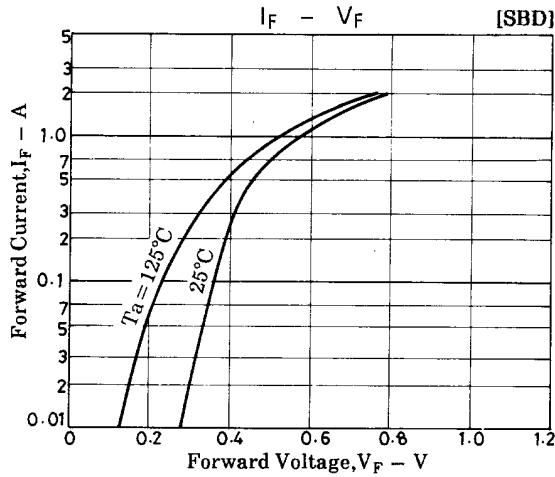
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