

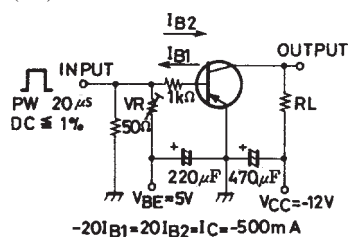
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Electrical Characteristics at Ta=25°C

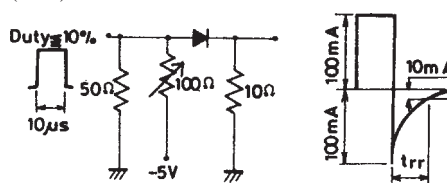
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
[TR]						
Collector Cutoff Current	I _{CBO}	V _{CB} =−20V, I _E =0			−0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =−4V, I _C =0			−0.1	μA
DC Current Gain	h _{FE1}	V _{CE} =−2V, I _C =−100mA	140		560	
	h _{FE2}	V _{CE} =−2V, I _C =−1.5A	65			
Gain-Bandwidth Product	f _T	V _{CE} =−10V, I _C =−50mA		150		MHz
Output Capacitance	C _{ob}	V _{CB} =−10V, f=1MHz		32		pF
C-E Saturation Voltage	V _{CE(sat)}	I _C =−1.5A, I _B =−75mA		−0.35	−0.6	V
B-E Saturation Voltage	V _{BE(sat)}	I _C =−1.5A, I _B =−75mA		−0.85	−1.2	V
C-B Breakdown Voltage	V _{(BR)CBO}	I _C =−10μA, I _E =0	−30			V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C =−1mA, R _{BE} =∞	−25			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E =−10μA, I _C =0	−6			V
Turn-ON Time	t _{on}	See specified Test Circuit		60		ns
Storage Time	t _{stg}	See specified Test Circuit		350		ns
Fall Time	t _f	See specified Test Circuit		25		ns
[SBD]						
Reverse Voltage	V _R	I _R =200μA	50			V
Forward Voltage	V _F	I _F =500mA			0.55	V
Reverse Current	I _R	V _R =25V			50	μA
Interterminal Capacitance	C	V _R =10V, f=1MHz		22		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 (250mm²×0.8mm)		120		°C/W

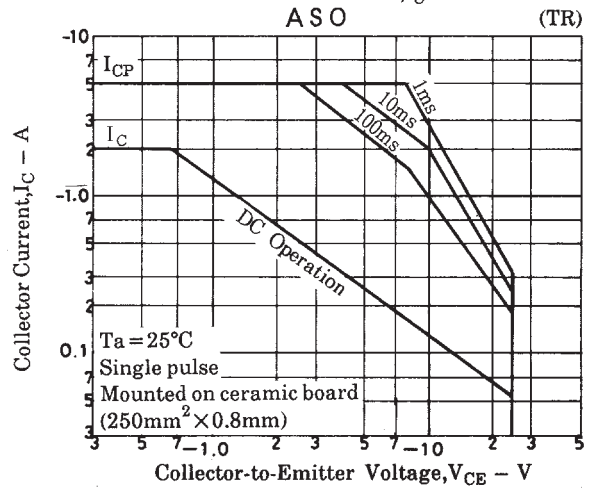
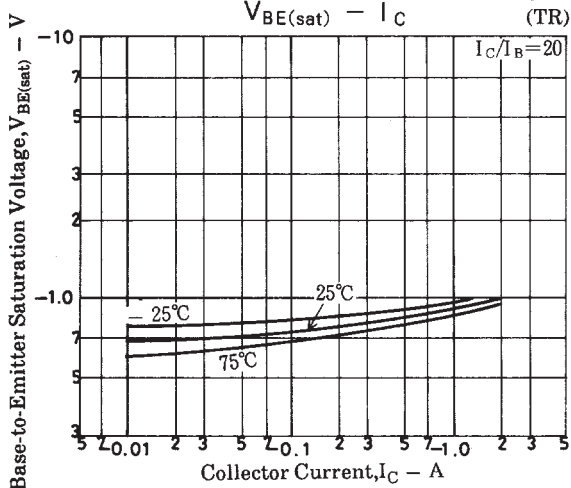
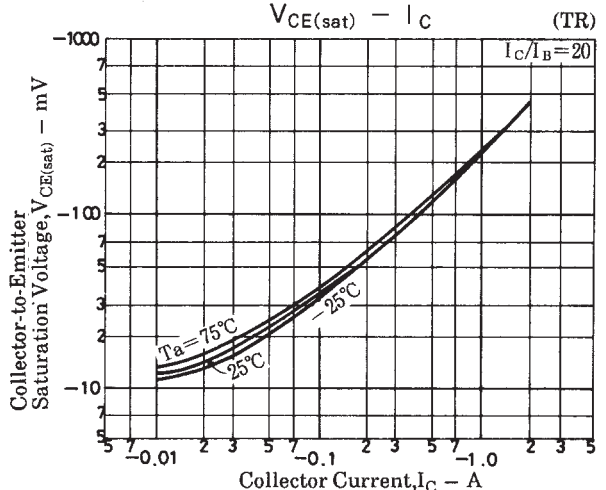
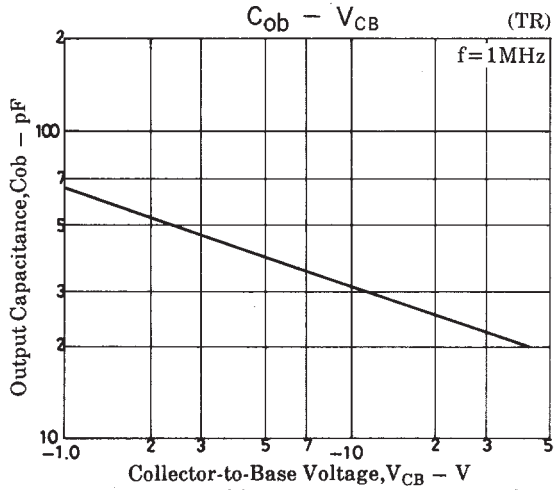
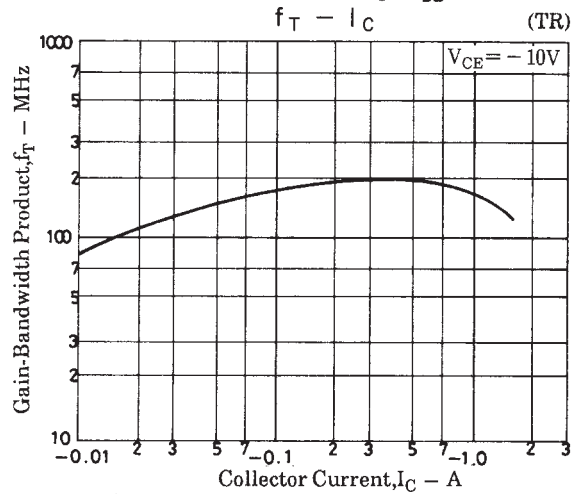
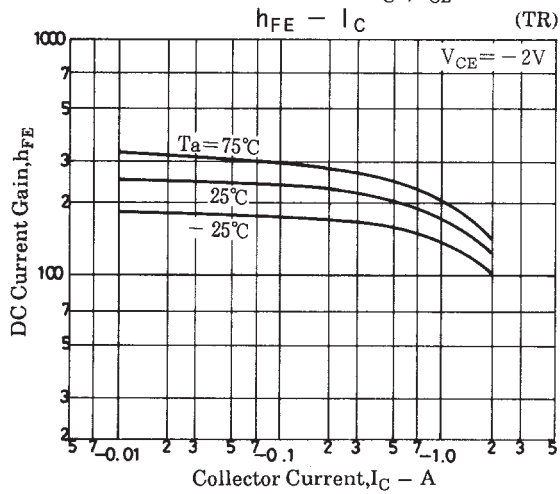
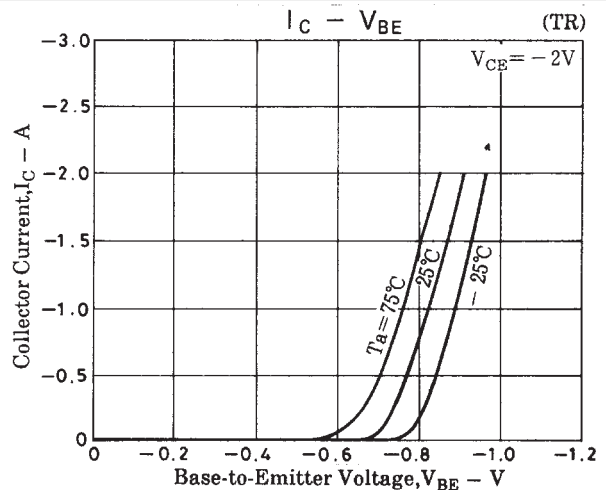
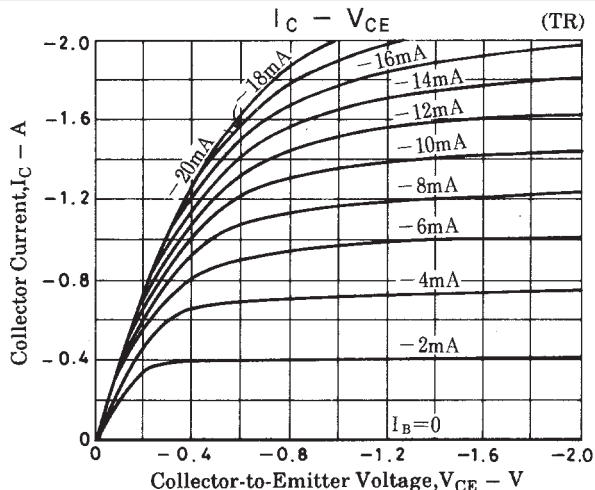
Switching Time Test Circuit

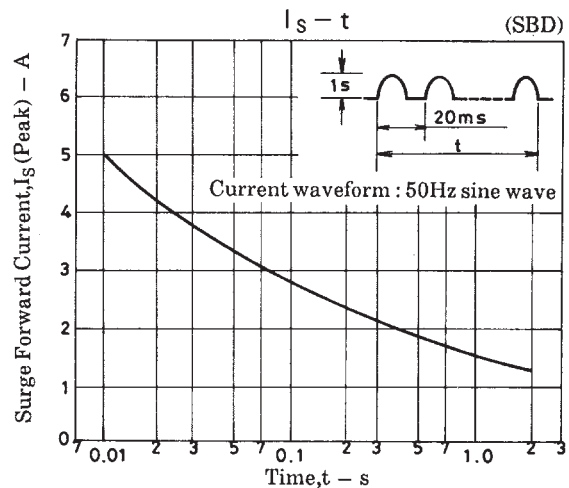
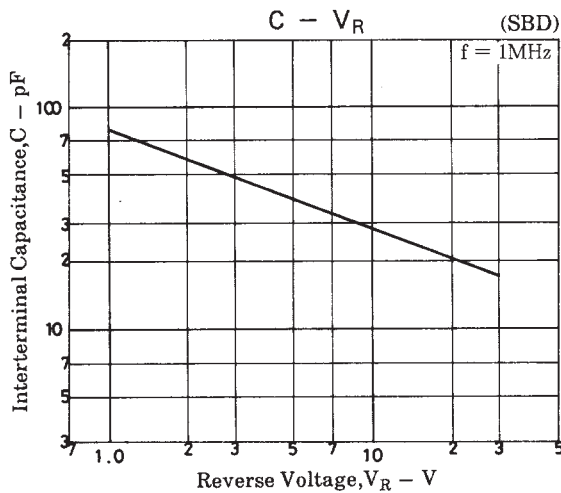
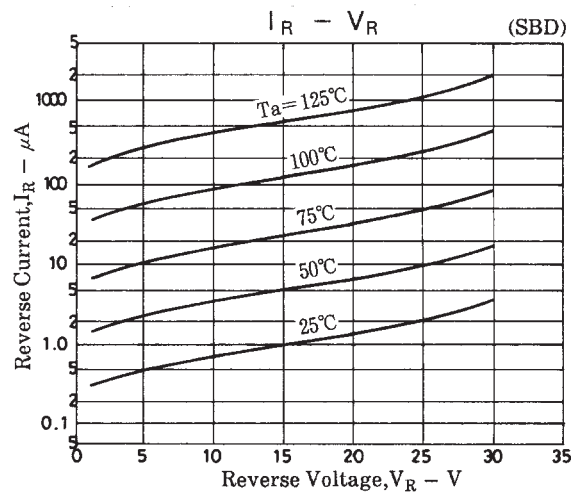
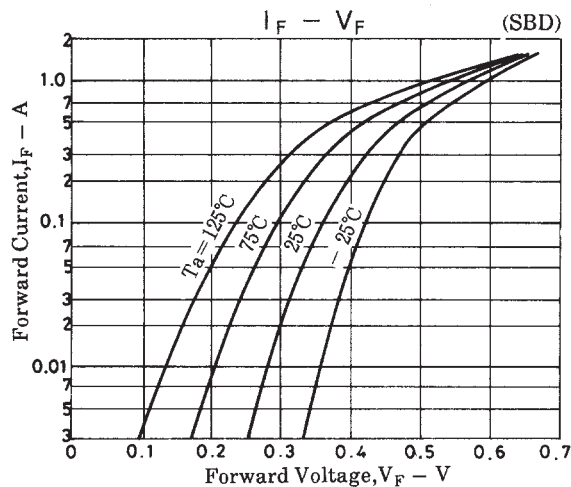
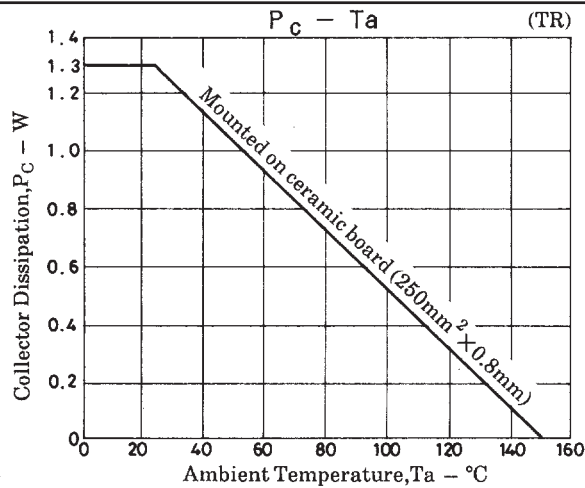
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