



■ Absolute Maximum Ratings (Ta = 25°C)

Parameter		Symbol	Ratings	Unit
Input (Light emitting diode)	Reverse voltage (DC)	$V_R$	5	V
	Forward current (DC)	$I_F$	50	mA
	Power dissipation	$P_D^{*1}$	75	mW
Output (Photo transistor)	Collector current	$I_C$	20	mA
	Collector to emitter voltage	$V_{CEO}$	30	V
	Emitter to collector voltage	$V_{ECO}$	5	V
	Collector power dissipation	$P_C^{*2}$	100	mW
Temperature	Operating ambient temperature	$T_{opr}$	-25 to +85	°C
	Storage temperature	$T_{stg}$	-40 to +100	°C

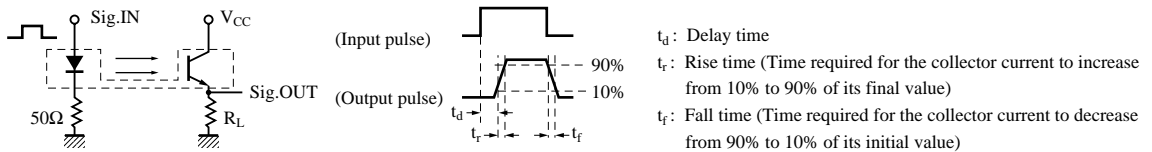
\*1 Input power derating ratio is 1.0 mW/°C at Ta ≥ 25°C.

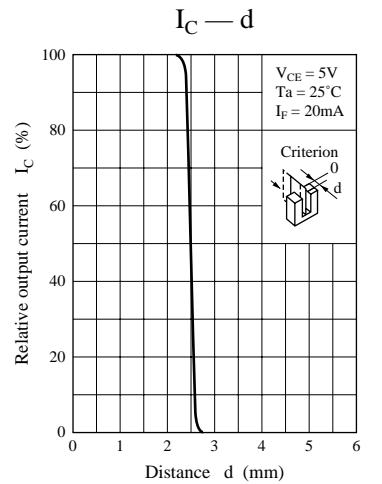
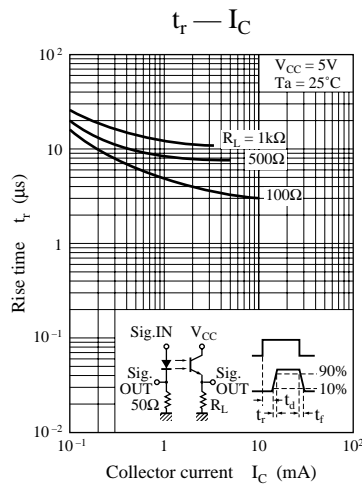
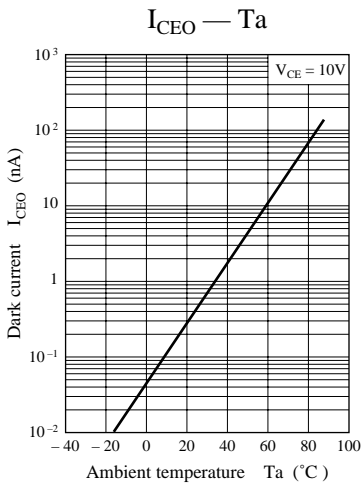
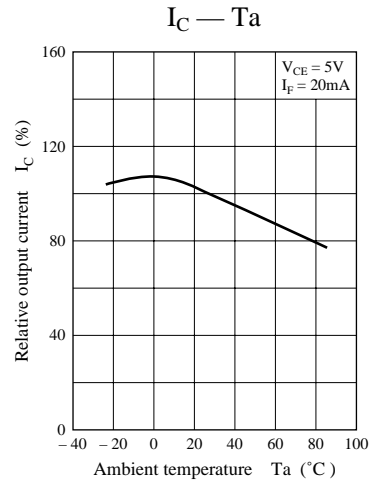
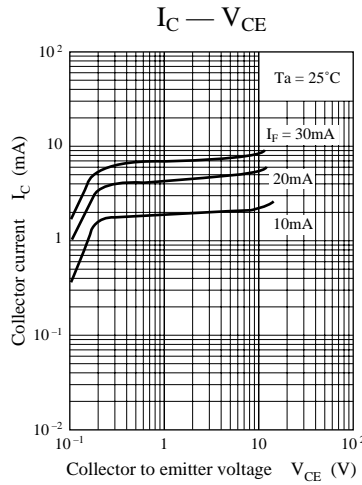
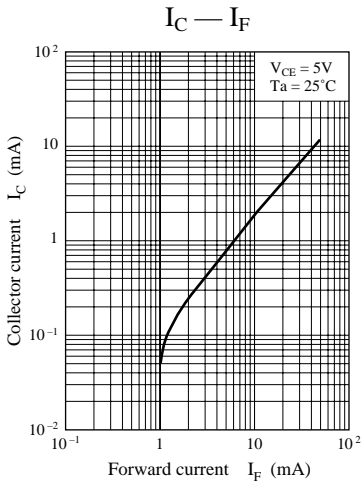
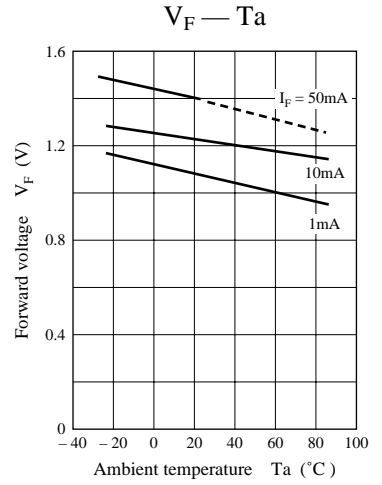
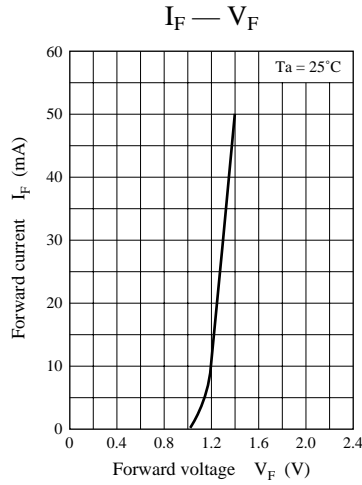
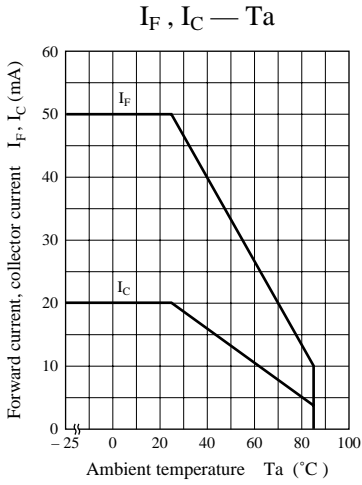
\*2 Output power derating ratio is 1.33 mW/°C at Ta ≥ 25°C.

■ Electrical Characteristics (Ta = 25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Input characteristics	Forward voltage (DC)	$V_F$	$I_F = 20\text{mA}$		1.25	1.4	V
	Reverse current (DC)	$I_R$	$V_R = 3\text{V}$			10	μA
Output characteristics	Collector cutoff current	$I_{CEO}$	$V_{CE} = 10\text{V}$		10	200	nA
Transfer characteristics	Collector current	$I_C$	$V_{CC} = 5\text{V}, I_F = 20\text{mA}, R_L = 100\Omega$	0.5		15	mA
	Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_F = 40\text{mA}, I_C = 1\text{mA}$			0.4	V
	Response time	$t_r, t_f^*$	$V_{CC} = 5\text{V}, I_C = 1\text{mA}, R_L = 100\Omega$		5		μs

\* Switching time measurement circuit





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 **DANGER**

Gallium arsenide material (GaAs) is used in this product.

Therefore, do not burn, destroy, cut, crush, or chemically decompose the product, since gallium arsenide material in powder or vapor form is harmful to human health.

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