

■ Electro-optical Characteristics

($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V_F	$I_F = 20\text{mA}$	-	1.2	1.4	V
	Reverse current	I_R	$V_R = 3\text{V}$	-	-	10	μA
Output	Collector dark current	I_{CEO}	$V_{CE} = 20\text{V}$	-	-	1×10^{-7}	A
Transfer characteristics	Collector Current	I_C	$V_{CE} = 5\text{V}, I_F = 3\text{mA}$	30	-	300	μA
	Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_F = 6\text{mA}, I_C = 15\mu\text{A}$	-	0.08	0.4	V
	Response time	Rise time	t_r	$R_L = 1\text{k}\Omega$	-	50	150
Fall time		t_f	$V_{CE} = 5\text{V}, I_C = 100\mu\text{A}$	-	50	150	μs

Fig. 1 Forward Current vs. Ambient Temperature

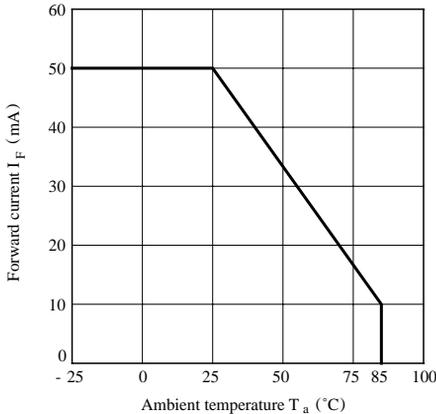


Fig. 2 Power Dissipation vs. Ambient Temperature

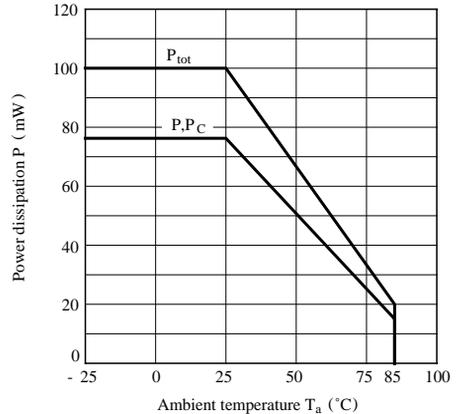


Fig. 3 Forward Current vs. Forward Voltage

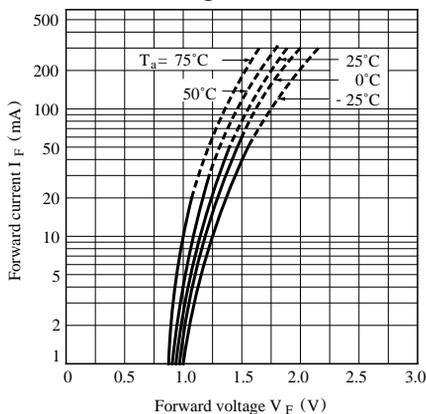


Fig. 4 Collector Current vs. Forward Current

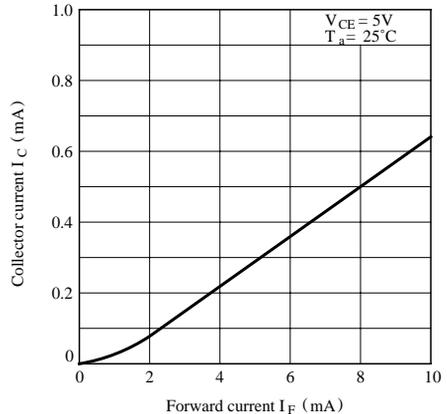


Fig. 5 Collector Current vs. Collector-emitter Voltage

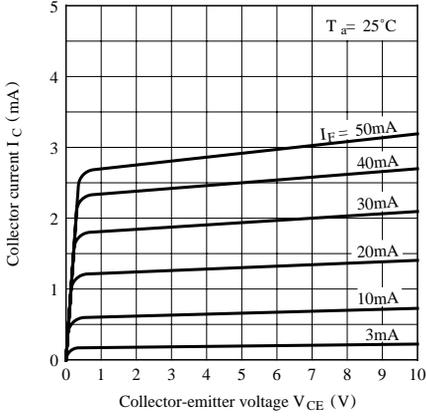


Fig. 6 Collector Current vs. Ambient Temperature

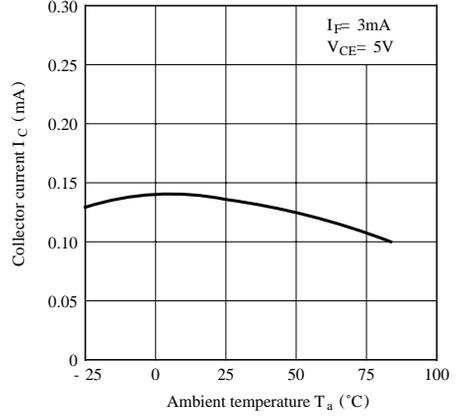


Fig. 7 Collector-emitter Saturation Voltage vs. Ambient Temperature

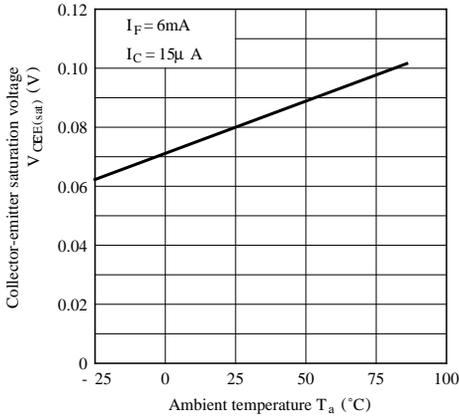


Fig. 8 Collector Dark Current vs. Ambient Temperature

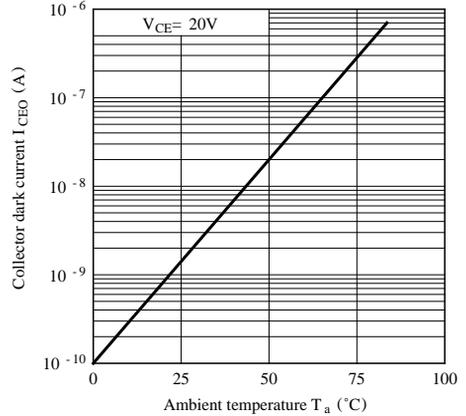
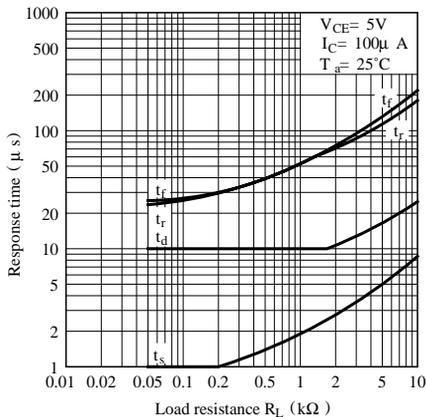


Fig. 9 Response Time vs. Load Resistance



Test Circuit for Response Time

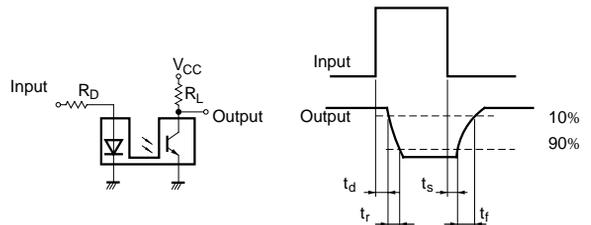


Fig.10 Relative Collector Current vs. Shield Distance (1)

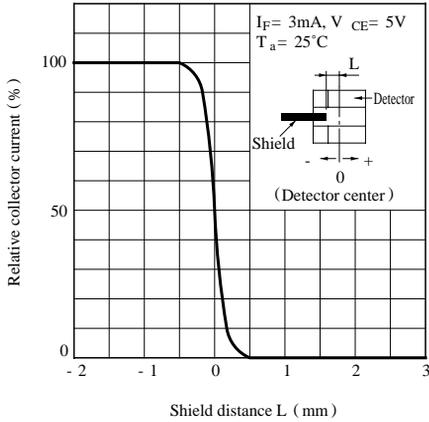
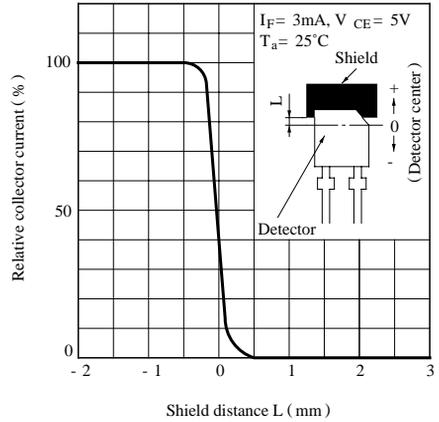


Fig.11 Relative Collector Current vs. Shield Distance (2)



- Please refer to the chapter “Precautions for Use”.