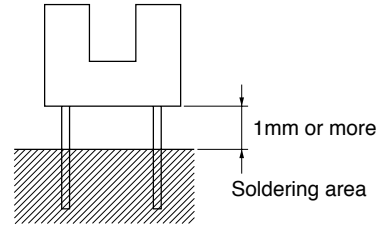


■ Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Parameter		Symbol	Rating	Unit
Input	Forward current	I_F	50	mA
	Reverse voltage	V_R	6	V
	Power dissipation	P	75	mW
Output	Collector-emitter voltage	V_{CEO}	35	V
	Emitter-collector voltage	V_{ECO}	6	V
	Collector current	I_C	20	mA
	Collector power dissipation	P_C	75	mW
Total power dissipation		P_{tot}	100	mW
Operating temperature		T_{opr}	-25 to +85	$^{\circ}\text{C}$
Storage temperature		T_{stg}	-40 to +100	$^{\circ}\text{C}$
*1 Soldering temperature		T_{sol}	260	$^{\circ}\text{C}$

*1 For 5s or less



■ Electro-optical Characteristics ($T_a=25^{\circ}\text{C}$)

Parameter		Symbol	Condition	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}	$V_{CE}=20\text{V}$	-	-	100	nA	
Transfer characteristics	Collector current	I_C	$V_{CE}=5\text{V}, I_F=5\text{mA}$	40	-	400	μA	
	Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_F=10\text{mA}, I_C=40\mu\text{A}$	-	-	0.4	V	
	Response time	Rise time	t_r	$V_{CE}=5\text{V}, I_C=100\mu\text{A}, R_L=1\text{k}\Omega$	-	50	150	μs
		Fall time	t_f		-	50	150	μs

Fig.1 Forward Current vs. Ambient Temperature

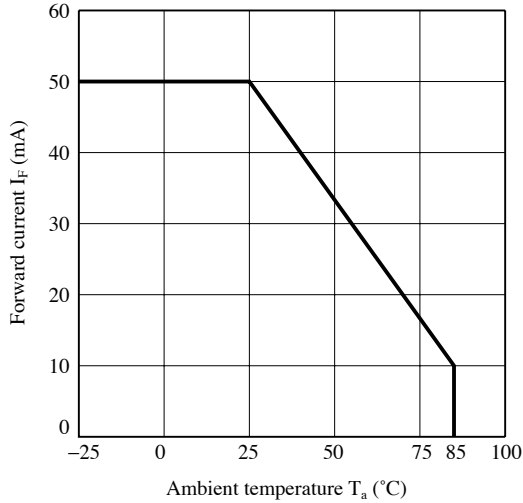


Fig.2 Power Dissipation vs. Ambient Temperature

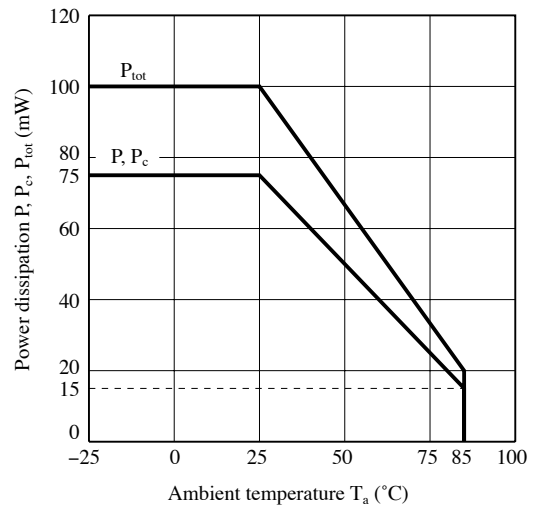


Fig.3 Forward Current vs. Forward Voltage

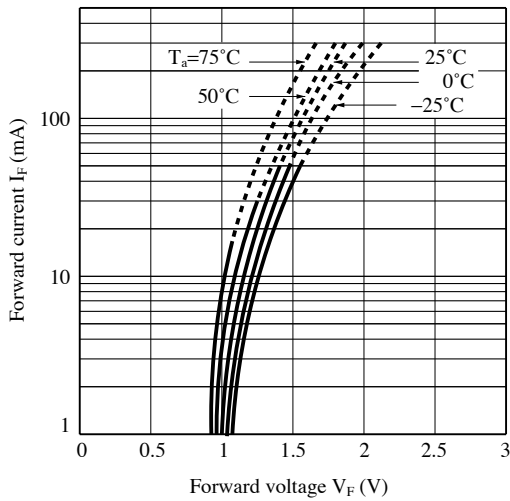


Fig.4 Collector Current vs. Forward Current

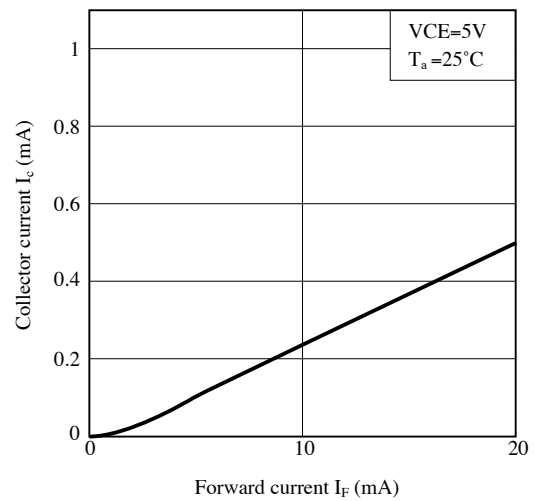


Fig.5 Collector Current vs. Collector-emitter Voltage

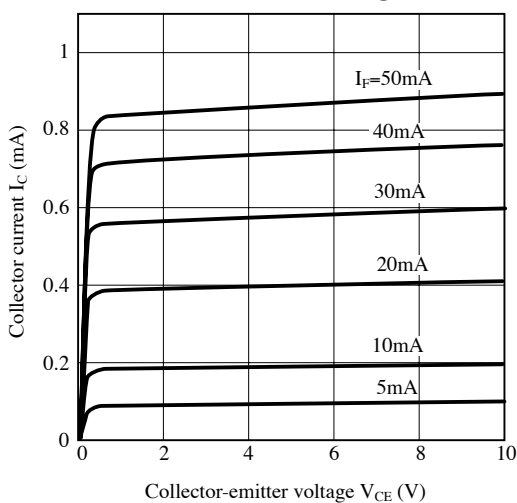


Fig.6 Relative Collector Current vs. Ambient Temperature

