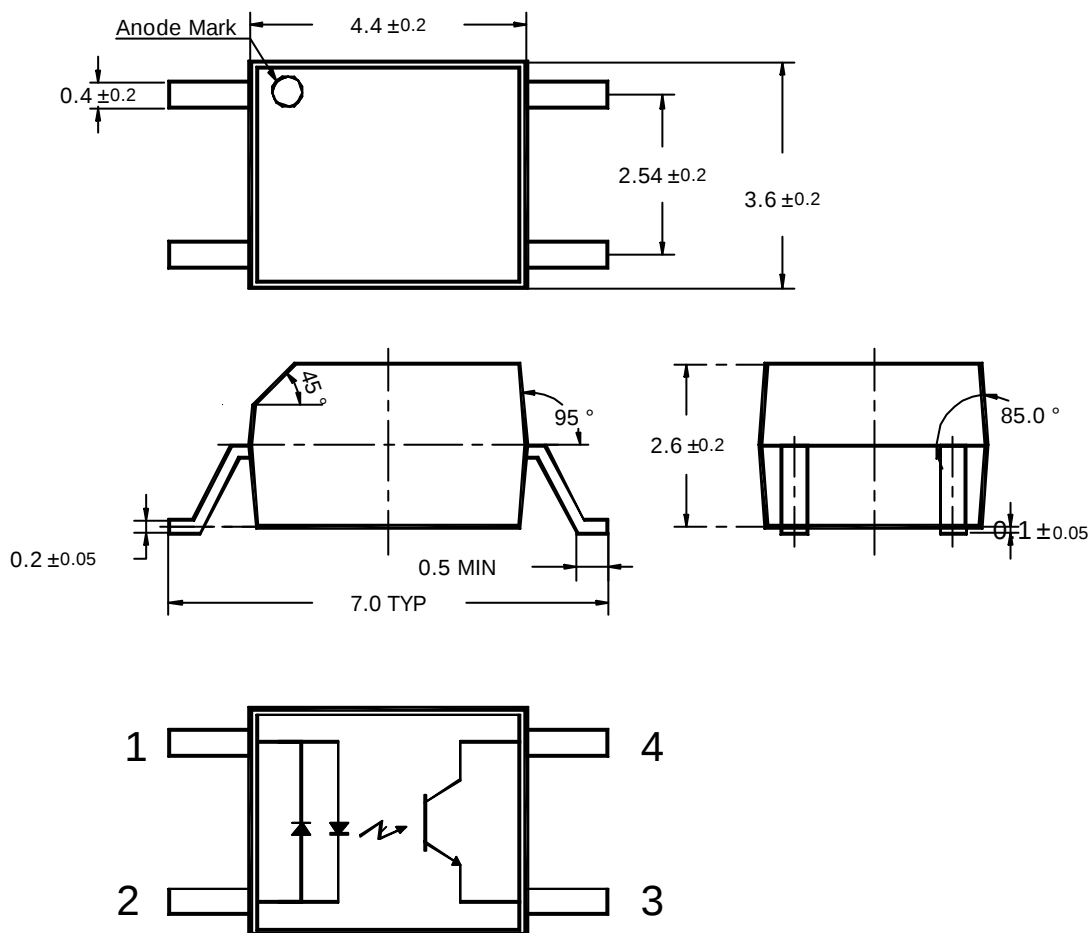


Features

- Office machine
 - AC/DC input module
 - Telecommunication
 - Programmable controller
 - Power supply
- UL recognized file No. E192807

Outline Dimensions

unit : mm



PIN Connections

1. Anode(Cathode)
2. Cathode(Anode)
3. Emitter
4. Collector

Absolute maximum ratings

(Ta = 25)

Characteristic		Symbol	Ratings	Unit
IRED	Continuous Forward Current	I_F	± 50	mA
	Power Dissipation	P_D	70	mW
Detector	Collector-Emitter Voltage	V_{CEO}	35	V
	Emitter-Collector Voltage	V_{ECO}	6	V
	Collector Current	I_C	50	mA
	Power Dissipation	P_D	150	mW
Coupler	Operating Temperature	T_{opr}	-30~100	
	Storage Temperature	T_{stg}	-55~125	
	Soldering Temperature	T_{sol}	260 within 10 seconds	
	*1 Isolation Voltage	V_{iso}	3,750	V_{rms}

*1. Measured at RH = 40 ~ 60% for 1 min

Electrical Characteristics

Parameter		Symbol	Test Condition	Min.	Typ.	Max.	Unit
IRED	Forward Current	V_F	$I_F = 10\text{mA}$	-	1.15	1.3	V
	Capacitance	C_T	$V = 0\text{V}, f = 1\text{MHz}$	-	30	-	pF
Detector	Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 0.5\text{mA}$	35	-	-	V
	Emitter-Collector Breakdown Voltage	BV_{ECO}	$I_E = 10\mu\text{A}$	6	-	-	V
	Collector Dark Current	I_{CEO}	$I_F = 0\text{mA}, V_{CE} = 10\text{V}$	-	-	100	nA
	Capacitance	C_{CE}	$V_{CE} = 0, f = 1\text{MHz}$	-	10	-	pF
Coupler	Current Transfer Ratio	CTR	$I_F = 5\text{mA}, V_{CE} = 5\text{V}$	100	-	600	%
	Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_F = 5\text{mA}, I_C = 1\text{mA}$	-	0.15	0.4	V
	Input-Output Capacitance	C_{I-O}	$V = 0\text{V}, f = 1\text{MHz}$	-	0.8	-	pF
Switching Time	Rise Time	t_r	$V_{CC} = 5\text{V}, R_L = 100\Omega$ $I_C = 2\text{mA}$	-	4	-	usec
	Fall Time	t_f		-	4	-	

Characteristic Diagrams

Fig. 1 $I_F - V_F$

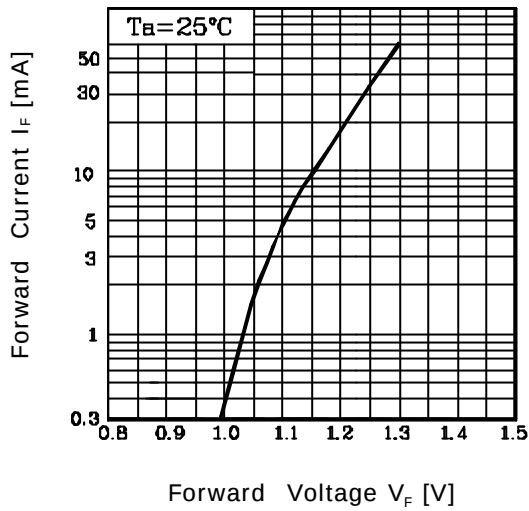


Fig. 2 CTR - I_F

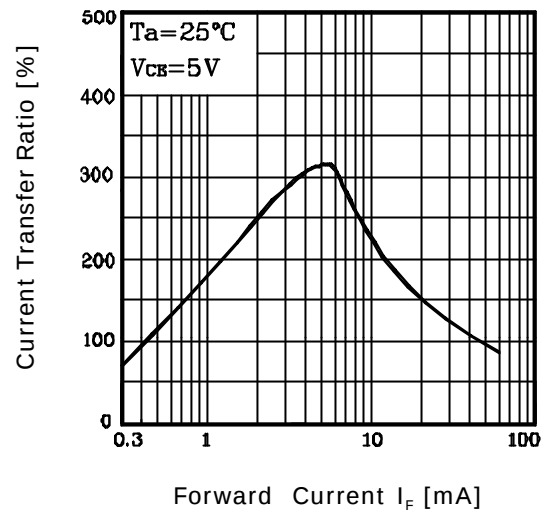


Fig. 3 $I_F - T_a$

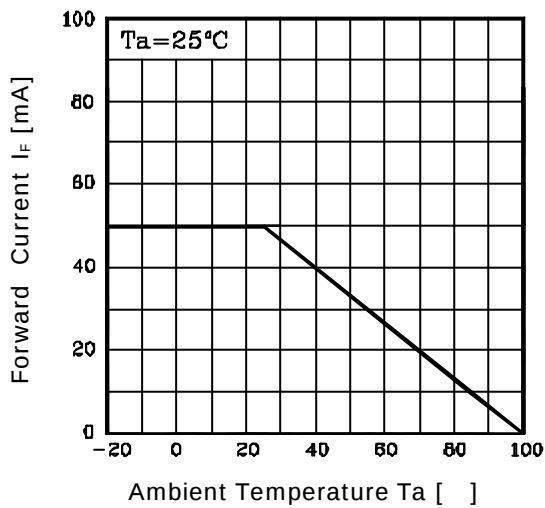


Fig. 4 $P_D - T_a$

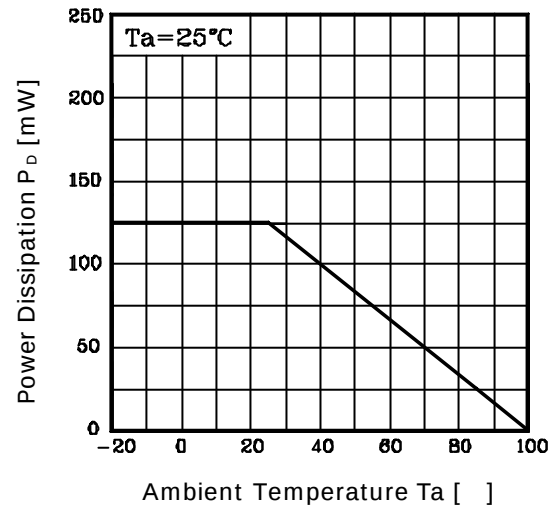


Fig. 5 $I_{CEO} - T_a$

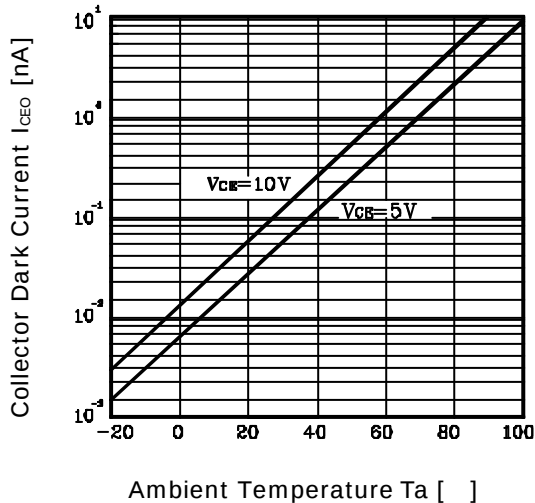


Fig. 5 $I_C - T_a$

