

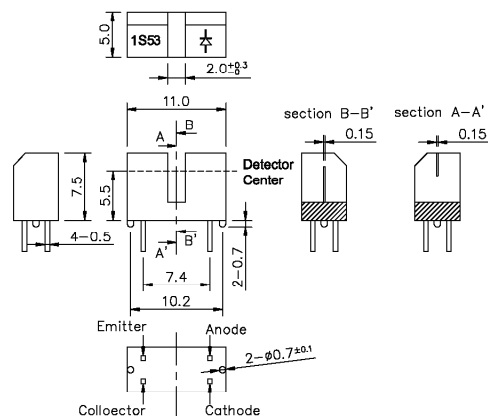
Features

1. Horizontal slit type
2. PWB direct mounting type
3. GAP between light emitter and detector : 2.0mm
4. Slit width : 0.15mm
5. With a positioning pin

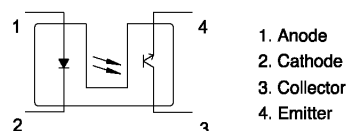
Applications

1. OA equipment, such as printer etc.
2. VCRs, cassette decks
3. Floppy disk drives

Outside Dimension:Unit (mm)



Schematic:Top View



Absolute Maximum Ratings

(Ta=25°C)

	Parameter	Symbol	Rating	Unit
Input	Forward current	IF	50	mA
	Peak forward current *1	IFP	1	A
	Reverse voltage	VR	6	V
	Power dissipation	PD	75	mW
Output	Collector-emitter voltage	VCEO	35	V
	Emitter-collector voltage	VECO	6	V
	Collector current	IC	20	mA
	Power dissipation	PD	75	mW
	Total power dissipation	TPD	100	mW
	Operating temperature	TOPR	-25 to +85	°C
	Storage temperature	TSTG	-40 to +100	°C
	Soldering temperature *2	TSOL	260	°C

*1 Pulse width ≤ 100 μs, duty ratio=1%

*2 For 5 seconds

Electro-optical Characteristics

(Ta=25°C)

	Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	VF	IF=20mA	—	1.2	1.4	V
	Peak forward voltage	VFM	IFM=0.5A	—	3	4	V
	Reverse current	IR	VR=3V	—	—	10	μA
Output	Collector-emitter dark current	ICEO	VCE=20V	—	1	100	nA
Transfer characteristics	Collector Current	IC	VCE=5V, IF=20mA	0.4	—	—	mA
	Collector saturation voltage	VCE(SET)	IF=40mA, IC=0.25mA	—	—	0.4	V
	Response time (Rise)	TR	VCE=2V, IC=0.5mA, RL=1KΩ	—	38	90	μS
	Response time (Fall)	TF		—	48	110	μS

Fig.1 Forward Current vs. Ambient Temperature

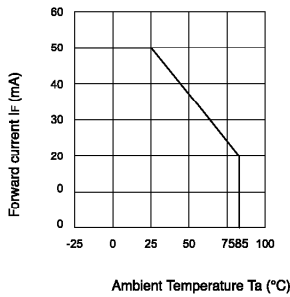


Fig.2 Collector Power Dissipation vs. Ambient Temperature

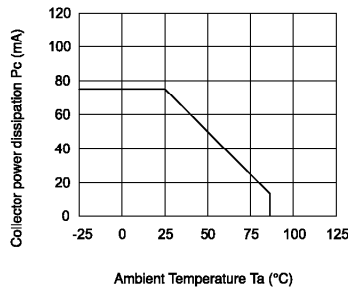


Fig.3 Peak Forward Current vs. Duty Ratio

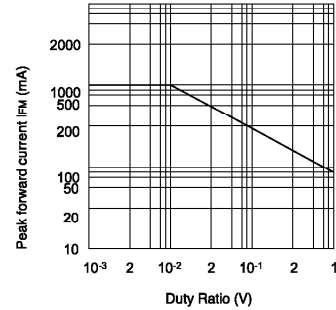


Fig.4 Forward Current vs. Forward Voltage

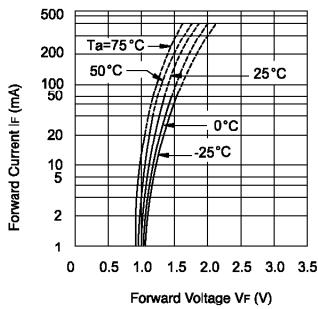


Fig.5 Collector Current vs. Forward Current

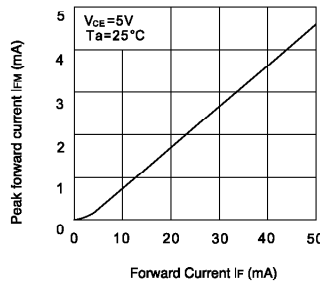


Fig.6 Collector Current vs. Collector-emitter Voltage

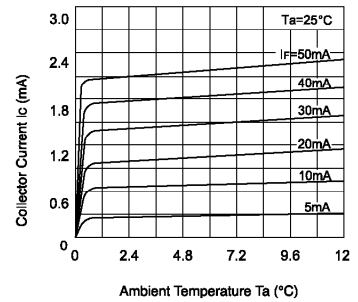


Fig.7 Collector Current vs. Ambient Temperature

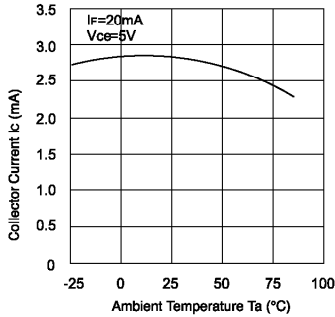


Fig.8 Collector-emitter Saturation Voltage vs. Ambient Temperature

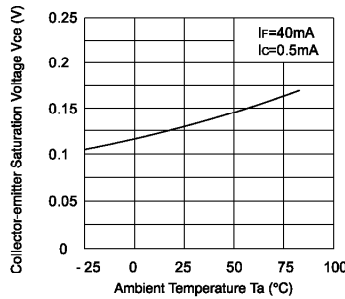
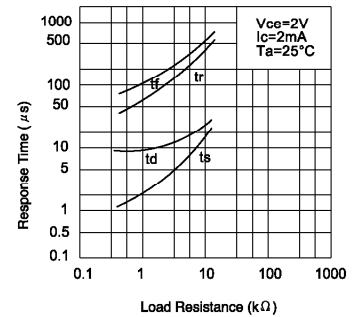


Fig.9 Response Time vs. Load Resistance



Test Circuit for Response Time

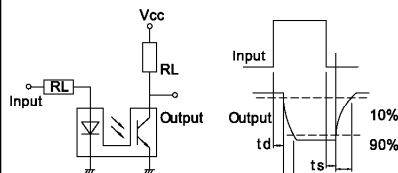


Fig.10 Relative Collector Current vs. Shield Distance (1)

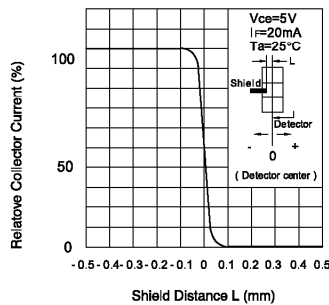


Fig.11 Relative Collector Current vs. Shield Distance (2)

