

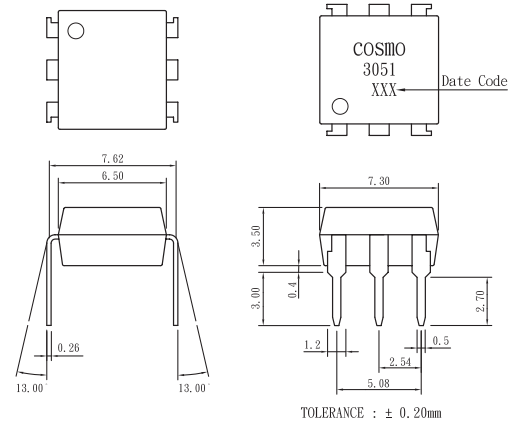
Features

1. Compact dual-in-line package.
2. 600V peak blocking voltage.
3. Isolation voltage between input and output (Viso:5000Vrms).

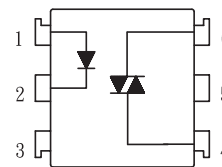
For 115/240 Vac (rms) Application:

1. Solenoid/Valve Controls.
2. Lighting Controls.
3. Static Power Switches.
4. AC Motor Drives.
5. Temperature Controls.
6. E. M. Contactors.
7. AC Motor Staters.
8. Solid State Relays.
9. Programmable controllers.

Outside Dimension:Unit (mm)



Schematic:Top View



1. Anode
2. Cathode
3. NC
4. MAIN TERMINAL
5. SUBSTRATE DO NOT CONNECT
6. MAIN TERMINAL

Absolute Maximum Ratings

(Ta=25°C)

	Parameter	Symbol	Rating	Unit
Input	Forward current	IF	50	mA
	Peak forward current (100us)	IFM	1	A
	Reverse voltage	VR	6	V
	Power dissipation	PD	70	mW
Output	Off-State Output Terminal voltage	VDRM	600	Vpeak
	On-State R. M. S. Current	IT(RMS)	100	mA
	Peak Repetitive Surget Current (PW=10ms, DC 10%)	ITSM	6	A
	Power dissipation	PD	300	mW
	Total power dissipation	Ptot	330	mW
	Isolation voltage 1 minute	Viso	5000	Vrms
	Operating temperature	Topr	-40 to +85	°C
	Storage temperature	Tstg	-50 to +125	°C
	Soldering temperature 10 second	Tsol	260	°C

Electro-optical Characteristics

(Ta=25°C)

	Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	VF	IF=10mA		1.2	1.4	V
	Peak forward voltage	VFM	IFM=0.5A			3.5	V
	Reverse Leakage Current	IR	VR=4V			10	μA
Output	Peak Blocking Current	IDRM	VDRM=600V			100	nA
	ON-State Voltage	VTM	ITM=100mA		1.6	2.8	V
Transfer characteristics	Holding Current	IH			1.0		mA
	Critical rate of rise of OFF-state voltage	dV/dt	VDRM= (1/ 2) *Rated	600			V/μS
	Isolation resistance	Riso	DC500V	5x10 ¹⁰	10 ¹¹		ohm
	Minimum trigger current	IFT	Main Terminal Voltage=3V			15	mA
	Turn-on time	Ton	VD=6V, RL=100 ohm, IF=20mA			100	μS

Fig.1 Forward Current vs. Ambient Temperature

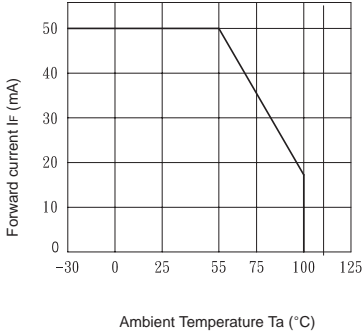


Fig.2 Diode Power Dissipation vs. Ambient Temperature

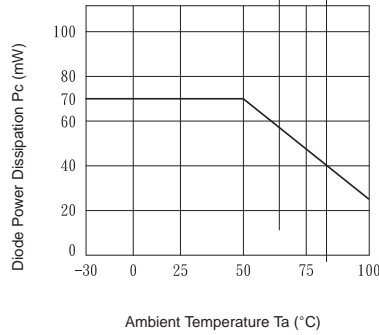


Fig.3 On-State R. M. S. Current vs. Ambient Temperature

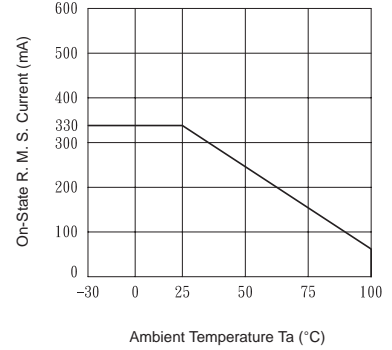


Fig.4 Total Power Dissipation vs. Ambient Temperature

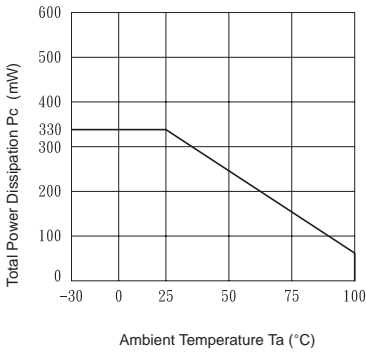


Fig.5 Peak Forward Current vs. Duty Ratio

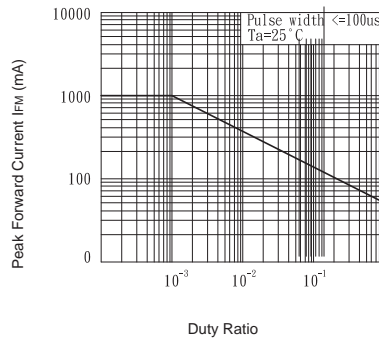


Fig.6 Forward Current vs. Forward Voltage

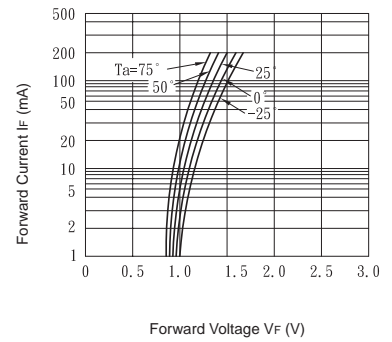


Fig.7 On-State Characteristics

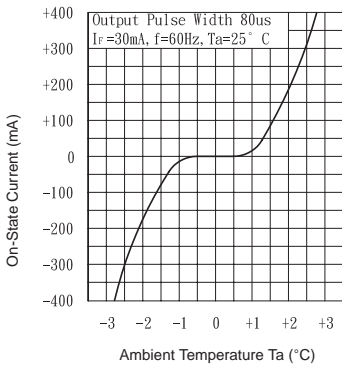


Fig.8 Leakage with LED off vs. Ambient Temperature

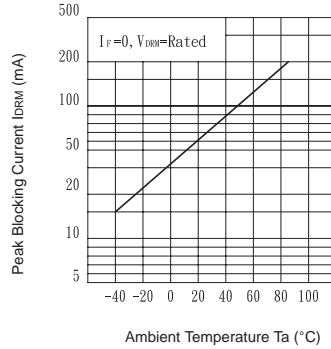


Fig.9 Trigger Current vs. Ambient Temperature

