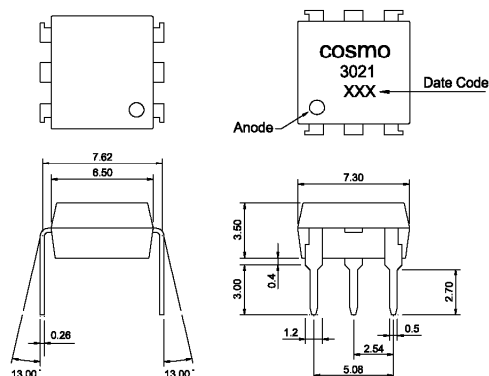


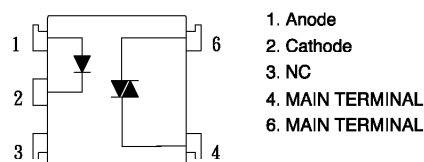
For 115/240 Vac (rms) Application:

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 Starters
8. Solid State Relays
9. Available package : DIP/ SMD/ H.

Outside Dimension : Unit (mm)



Schematic : Top View



Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Input	Forward current	IF	50
	Peak forward current	IFM	1
	Reverse voltage	VR	6
	Power dissipation	PD	70
Output	Off-State Output Terminal voltage	VDRM	400
	Peak Repetitive Surget Current	ITSM	1
	Power dissipation	PD	300
	Total power dissipation	Ptot	330
	Isolation voltage 1 minute	Viso	5000
	Operating temperature	Topr	-40 to +80
	Storage temperature	Tstg	-40 to +125
	Soldering temperature 10 seconds	Tsol	260

Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	VF=10mA	—	1.2	1.4	V
	Peak forward voltage	IFM=0.5A	—	—	3.5	V
	Reverse Leakage Current	VR=4V	—	—	10	uA
Output	Peak Blocking Current	VDRM=Rated	—	—	10 ⁻⁷	A
	ON-State Voltage	ITM=100mA	—	1.6	3	V
Transfer characteristics	Holding Current	IH	—	100	—	uA
	Critical rate of rise of OFF-state voltage	dV/dt	600	—	—	V/uS
	Isolation resistance	Riso	5x10 ¹⁰	10 ¹¹	—	ohm
	Minimum trigger current	IFT	—	—	15	mA
	Turn-on time	Ton	—	—	100	uS

Fig.1 Forward Current vs. Ambient Temperature

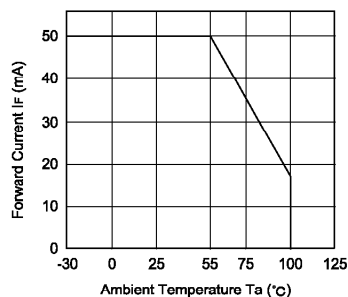


Fig.2 Diode Power Dissipation vs. Ambient Temperature

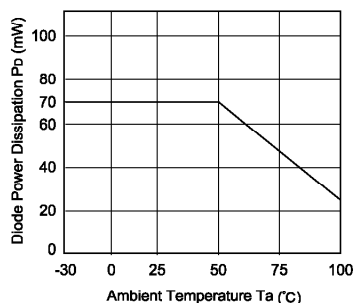


Fig.3 On-State R.M.S. Current vs. Ambient Temperature

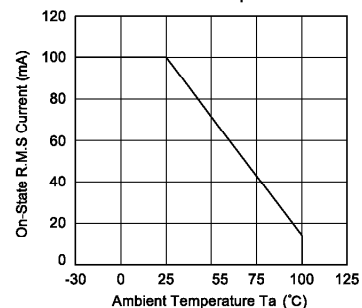


Fig.4 Total Power Dissipation vs. Ambient Temperature

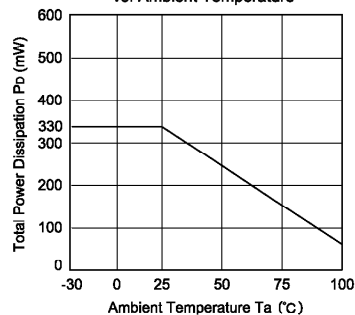


Fig.5 Peak Forward Current vs. Duty Ratio

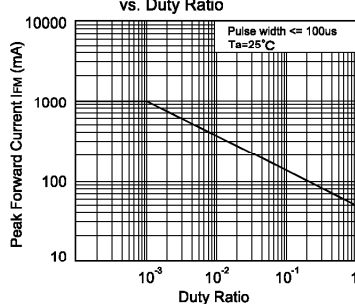


Fig.6 Forward Current vs. Forward Voltage

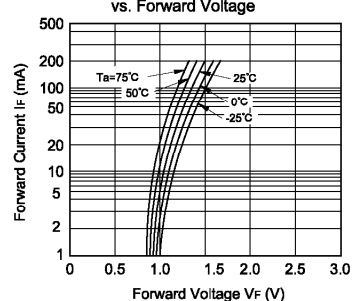


Fig.7 On-State Characteristics

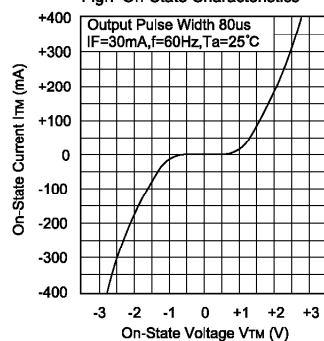


Fig.8 Leakage with LED off vs. Ambient Temperature

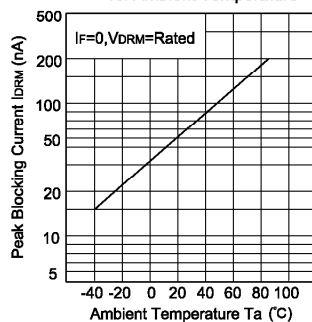


Fig.9 Tigger Current vs. Ambient Temperature

