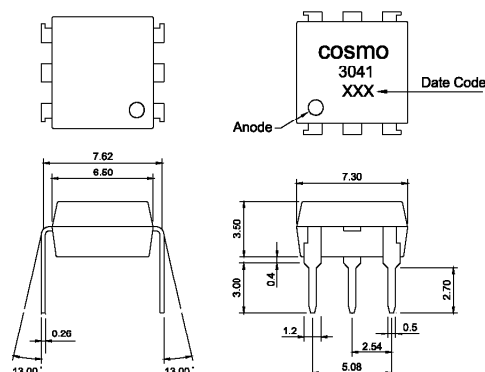


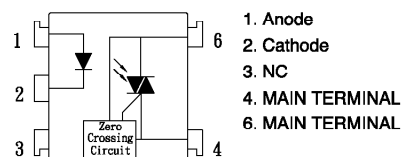
## For 115/240 Vac (rms) Application:

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.

## 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	IFM	1	A
Reverse voltage	VR	6	V
Power dissipation	PD	70	mW
Output			
Off-State Output Terminal voltage	VDRM	400	Vpeak
Peak Repetitive Surget Current	ITSM	1	A
Power dissipation	PD	300	mW
Total power dissipation	Ptot	330	mW
Isolation voltage 1 minute	Viso	5000	Vrms
Operating temperature	Topr	-40 to +80	°C
Storage temperature	Tstg	-40 to +125	°C
Soldering temperature 10 seconds	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
Reverse Leakage Current	IR	VR=4V	—	—	10	μA
Output						
Peak Blocking Current	IDRM	VDRM=Rated	—	60	500	nA
ON-State Voltage	VTM	ITM=100mA	—	1.8	3	V
Critical rate of rise of OFF-state voltage	dV/dt	VDRM=(1/√2) * Rated	600	—	—	V/μS
Transfer characteristics						
Holding Current	IH		—	100	—	μA
Inhibit Voltage (MT1-MT2 Voltage above which device not trigger.)	VINH	IF=15mA	—	5	20	V
Leakage in Inhibited State	IDRM2	IF=Rated IFT, Rated VDRM, Off State	—	—	500	μA
Isolation resistance	Riso	DC500V	5x10 <sup>10</sup>	10 <sup>11</sup>	—	ohm
Minimum trigger current	IFT	Main Terminal Voltage=3V	—	—	15	mA

Fig.1 Forward Current vs. Ambient Temperature

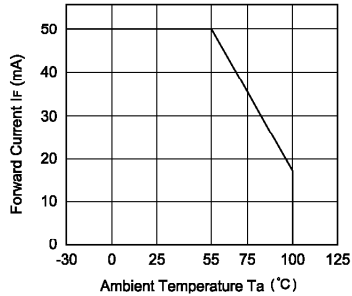


Fig.2 Diode Power Dissipation vs. Ambient Temperature

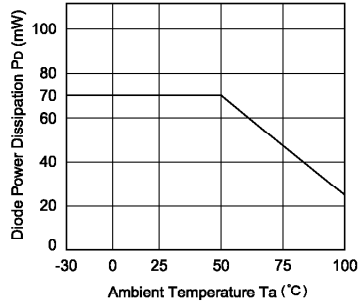


Fig.3 On-State R.M.S. Current vs. Ambient Temperature

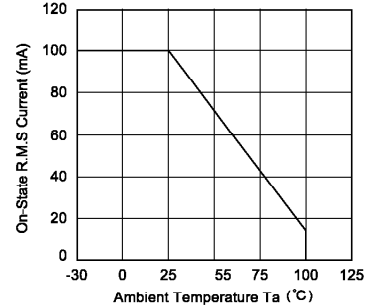


Fig.4 Total Power Dissipation vs. Ambient Temperature

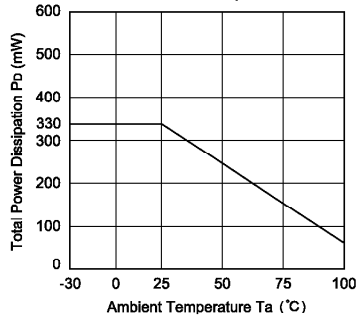


Fig.5 Peak Forward Current vs. Duty Ratio

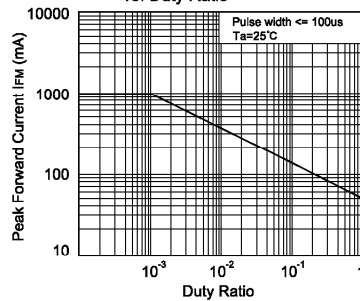


Fig.6 Forward Current vs. Forward Voltage

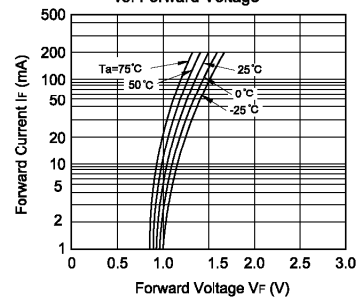


Fig.7 On-State Characteristics

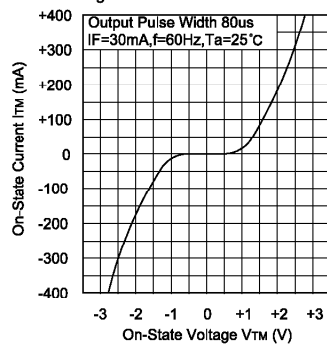


Fig.8 Inhibit Voltage vs. Ambient Temperature

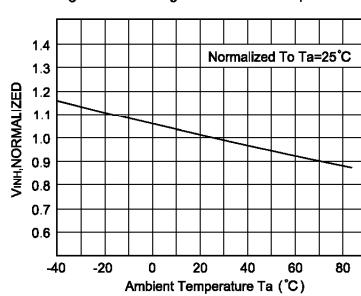


Fig.9 Leakage with LED off vs. Ambient Temperature

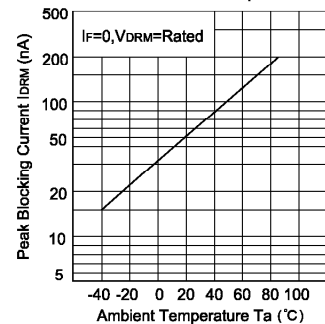


Fig.10 Ism2, Leakage In Inhibit State vs. Ambient Temperature

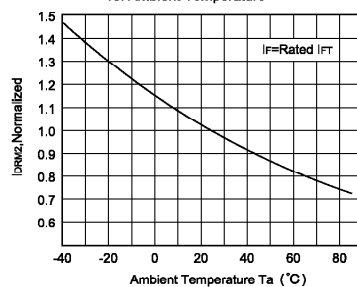


Fig.11 Tigger Current vs. Ambient Temperature °C

