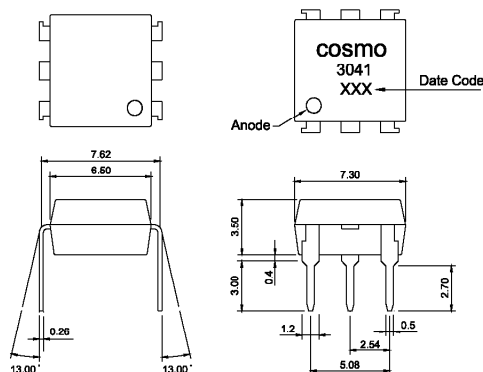


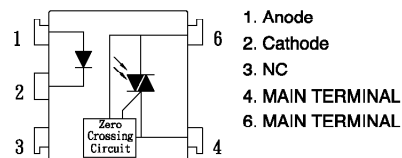
For 115/240 Vac (rms) Application:

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 ¹⁰	10 ¹¹	—	ohm
Minimum trigger current	IFT	Main Terminal Voltage=3V	—	—	15	mA

Fig.1 Forward Current vs. Ambient Temperature

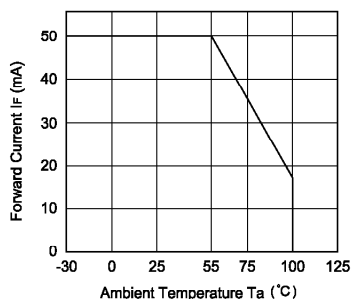


Fig.2 Diode Power Dissipation vs. Ambient Temperature

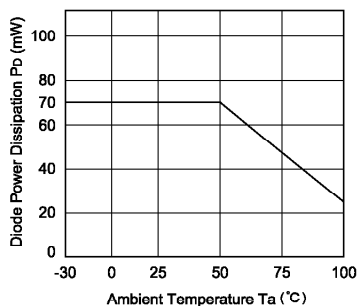


Fig.3 On-State R.M.S. Current vs. Ambient Temperature

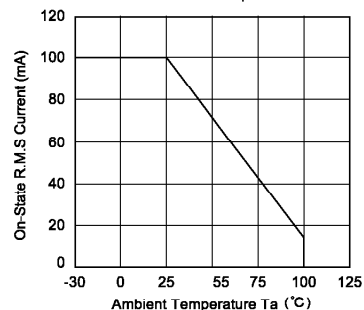


Fig.4 Total Power Dissipation vs. Ambient Temperature

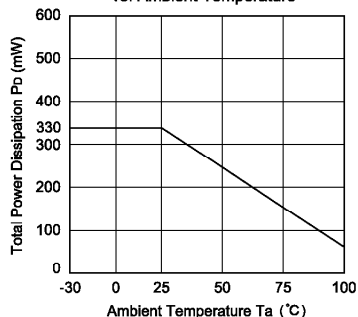


Fig.5 Peak Forward Current vs. Duty Ratio

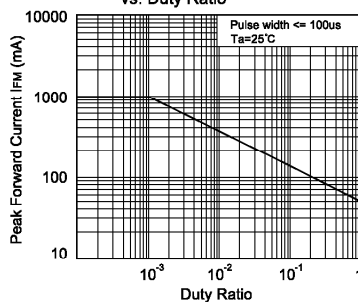


Fig.6 Forward Current vs. Forward Voltage

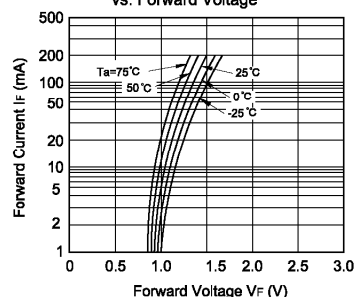


Fig.7 On-State Characteristics

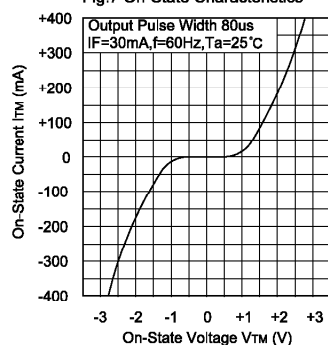


Fig.8 Inhibit Voltage vs. Ambient Temperature

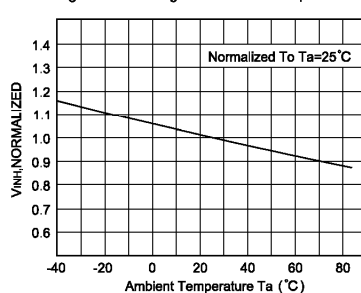


Fig.9 Leakage with LED off vs. Ambient Temperature

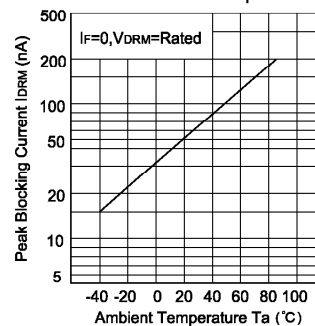


Fig.10 I_{BM2}, Leakage In Inhibit State vs. Ambient Temperature

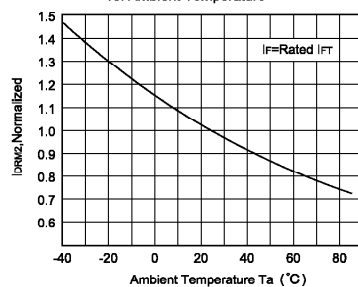


Fig.11 Tigger Current vs. Ambient Temperature °C

