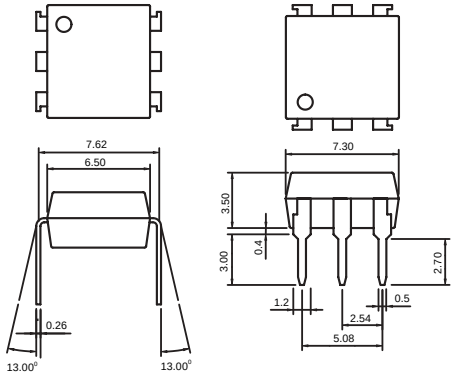
USR/CNR Listed (File # 223387)

For 115/240 VRMS 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 types: DIP(shown)/ SMD/ H (Page: 137).

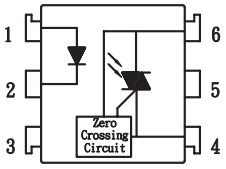
Part Numbering System: Page 2. **Part Marking System:** Page 4.

Outside Dimension: Unit (mm)



TOLERANCE :± 0.2mm

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	IFM	1	A
	Reverse voltage	VR	6	V
	Power dissipation	PD	70	mW
Output	Off-State Output Terminal voltage	VDRM	700	Vpeak
	Peak Repetitive Surge 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	1.5	V
	Reverse Leakage Current	IR	VR =4V	—	—	10	uA
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		100	—	—	V/uS
Transfer characteristics	Holding Current	IH		—	100	—	uA
	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	uA
	Isolation resistance	Riso	DC500V	$5x10^{10}$	10^{11}	—	ohm
	Minimum trigger current	IFT	Main Terminal Voltage=3V	—	—	15	mA

Fig.1 On-State Characteristics

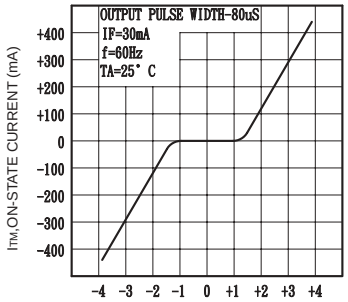


Fig.2 Inhibit Voltage versus Temperature

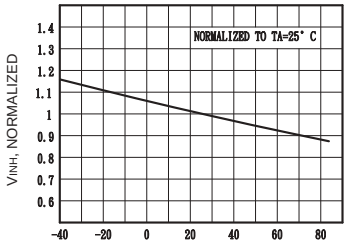


Fig.3 Leakage with LED Off versus Temperature

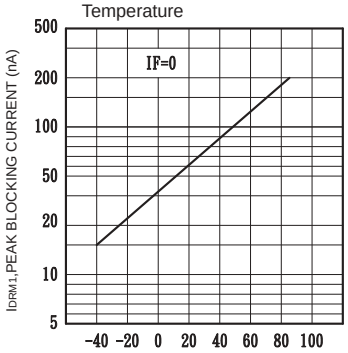


Fig.4 IDRM2 ,Leakage in Inhibit State versus Temperature

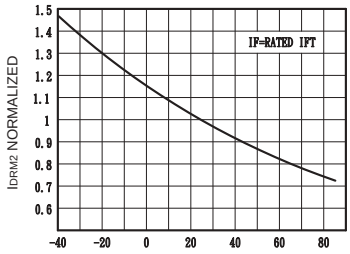


Fig.5 Trigger Current versus Temperature