WR MosRelay

PVG612

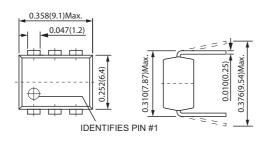
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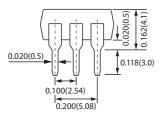
The PVG612 feature high current switching capability to 1.25A with a low on resistance of 0.15 Maximum. Designed for ATE, Controls,or Measurement and Instrumentation applications,the MOSRELAY® relay is capable of handling 60V load conditions.

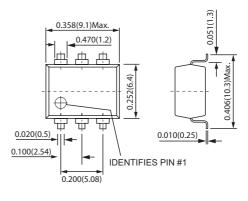
Features

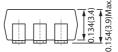
Contact Form: 1-Form-A Load Voltage: 60V Maximum Operation LED Current: 5.0mA Maximum Load Current: 1.25A Maximum On-Resistance: 0.15 Maximum Low Off-State Leakage Current: 1.0uA Maximum I/O Breakdown Voltage: 2500Vrms Minimum Applications

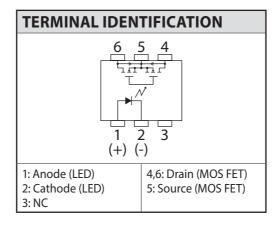
Telecommunications Instrumentation Medical Equipment Industrial Controls Security











Part No	Package	Tube	Tape and reel	Units/Box	Contact From
PVG612PBF	DIP6	65pcs		1040pcs	
PVG612S-TPBF	SMD6		1000pcs	1000pcs	Picked from 1/2/3-pin sid



MAXIMUM RATINGS (Ambient Temperature: 25°C)							
Parameters	Symbol	Units	Value				
INPUT SPECIFICATIONS							
Continuous LED Current	lF	mA	50				
Peak LED Current	I FP	mA	500				
LED Reverse Voltage	VR	V	5				
Input Power Dissipation	Pin	mW	75				
OUTPUT SPECIFICATIONS							
Load Voltage	VL	V (AC peak or DC)	60				
Load Current	lı.	А	1.25				
Peak Load Current	Peak	А	2.0				
Output Power Dissipation	Pout	mW	450				
RELAY SPECIFICATIONS							
Total Power Dissipation	Рт	mW	550				
I/O Breakdown Voltage	Vi/o	Vrms	2500				
Operating Temperature	Topr	°C	-40 ~ +85				
Storage Temperature	Tstg	°C	-40 ~ +100				

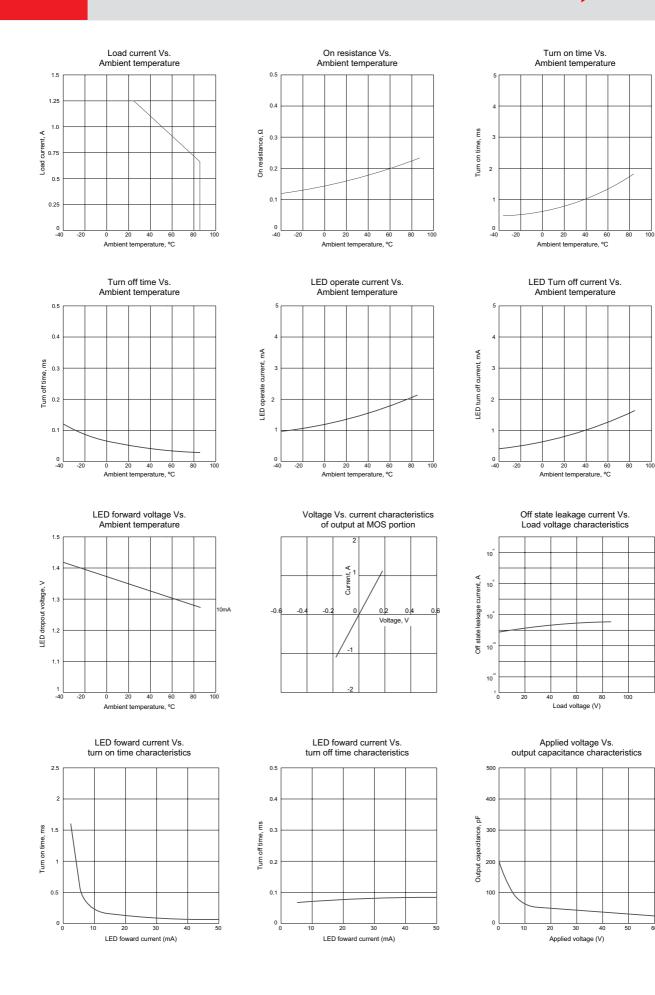
ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)									
Parameters	Symbol	Test Conditions	Units	Min	Тур	Max			
INPUT									
LED Forward Voltage	VF	IF=10mA	V	1.0	1.37	1.5			
Operation LED Current	lF On		mA		1.2	5.0			
Recovery LED Voltage	VF Off		V	0.5					
OUTPUT									
On-Resistance Drain to Drain	Ron	IF=5mA, $IL=Rating$ Time to flow is within 1 sec.	Ω		0.15	0.5			
Off-State Leakage Current	Leak	VL=60V	μA			1.0			
Output Capacitance	COut	V∟=0V, f=1MHz	pF		190				
TRANSMISSION									
Turn-On Time	Ton		ms		0.6	5.0			
Turn-Off Time	Toff	I⊧=5mA, I∟=Rating	ms		0.06	0.5			
COUPLED									
I/O Insulation Resistance	Ri/o		Ω	10 ⁹					
I/O Capacitance	Ci/o	f=1MHz	pF		1.3				

Environmental Ratings:

Operating Temp: -40°C to +85° C; Storage Temp: -40 to +100 C.

All electrical parameters measured at 25° C unless otherwise specified.







Manufacturing Information

Moisture Sensitivity

All plastic encapsulated semiconductor packages are susceptible to moisture ingression. MosRelay ntegrated Circuits Division classifies its plastic encapsulated devices for moisture sensitivity according to the latest version of the joint industry standard, **IPC/JEDEC J-STD-020**, in force at the time of product evaluation. We test all of our products to the maximum conditions set forth in the standard, and guarantee proper operation our devices when handled according to the limitations and information in that standard as well as to any limitations forth in the information or standards referenced below.

Failure to adhere to the warnings or limitations as established by the listed specifications could result in reduced product performance, reduction of operable life, and/or reduction of overall reliability.

This product carries a Moisture Sensitivity Level (MSL) classification as shown below, and should be handled according to the requirements of the latest version of the joint industry standard **IPC/JEDEC J-STD-033**.

ESD Sensitivity

This product is **ESD Sensitive**, and should be handled according to the industry standard **JESD-625**.

Soldering Profile

Provided in the table below is the Classification Temperature (T_C) of this product and the maximum dwell time the body temperature of this device may be $(T_C - 5)^{\circ}C$ or greater. The classification temperature sets the Maximum Body Temperature allowed for this device during lead-free reflow processes. For through-hole devices, and any other processes, the guidelines of **J-STD-020** must be observed.

Board Wash

MosRelay Integrated Circuits Division recommends the use of no-clean flux formulations. Board washing to reduce or remove flux residue following the solder reflow process is acceptable provided proper precautions are taken to prevent damage to the device. These precautions include, but are not limited to: using a low pressure wash and providing a follow up bake cycle sufficient to remove any moisture trapped within the device due to the washing process. Due to the variability of the wash parameters used to clean the board, determination of the bake temperature and duration necessary to remove the moisture trapped within the package is the responsibility of the user (assembler). Cleaning or drying methods that employ ultrasonic energy may damage the device and should not be used. Additionally, the device must not be exposed to flux or solvents that are Chlorine- or Fluorine-based.



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