

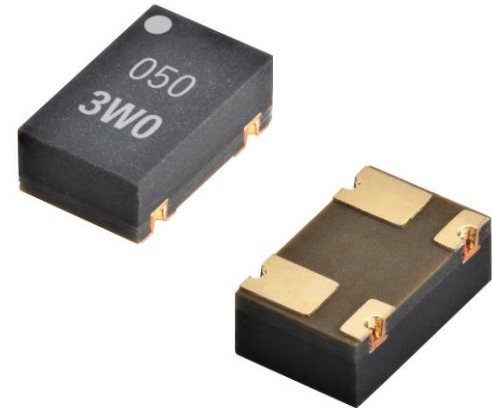
New Product Information

MOSFET Relay

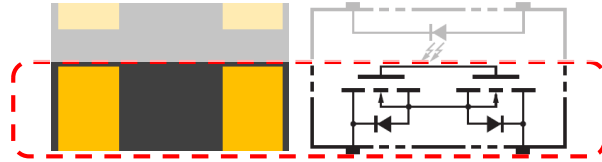
P-SON Higher current type

NEW

G3VM-201WR

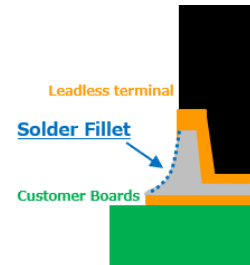


- Balancing small size and high current
Design to improve heat radiation performance



Expanded output terminal pad

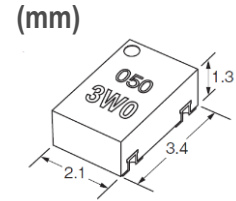
- Achieves good soldering shape
New terminal shape design improves
Solder Joint & Solder Visibility



- Small packing quantity
500pc Tape & Reel

G3VM-201WR

- Feature**
- Adoption of small size package "**P-SON**"
 - Balances higher current and small size --- Suitable for ATE (Pin electronics)
 - 1a (SPST-NO) contact form
 - High operating temperature range (**up to +110°C**)



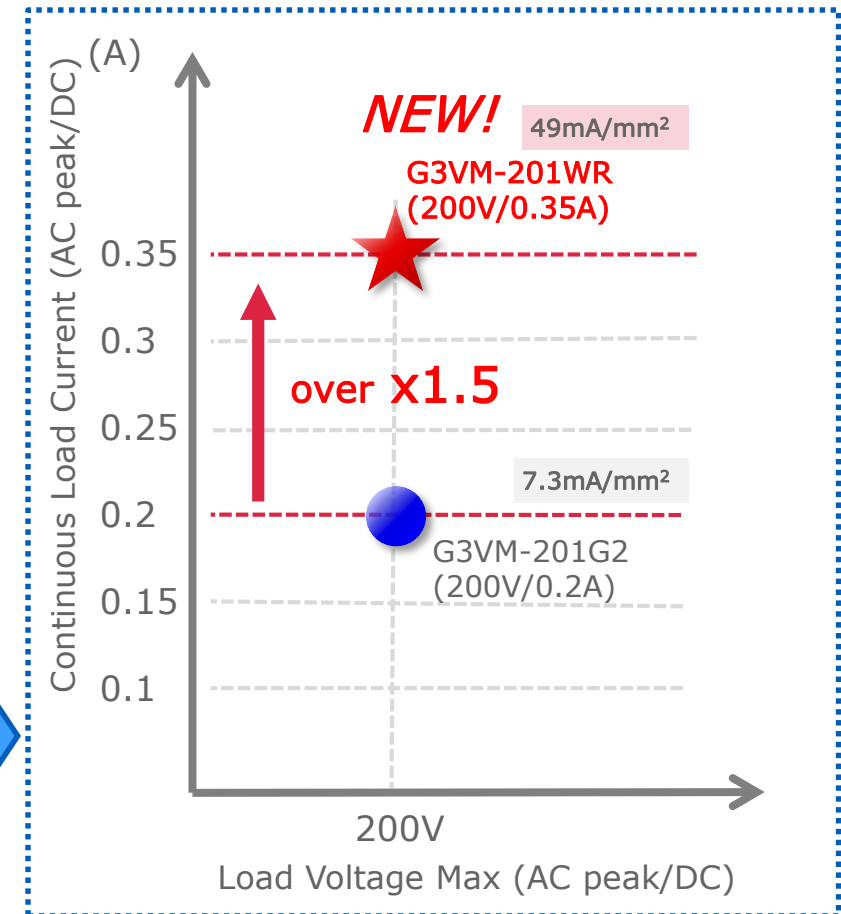
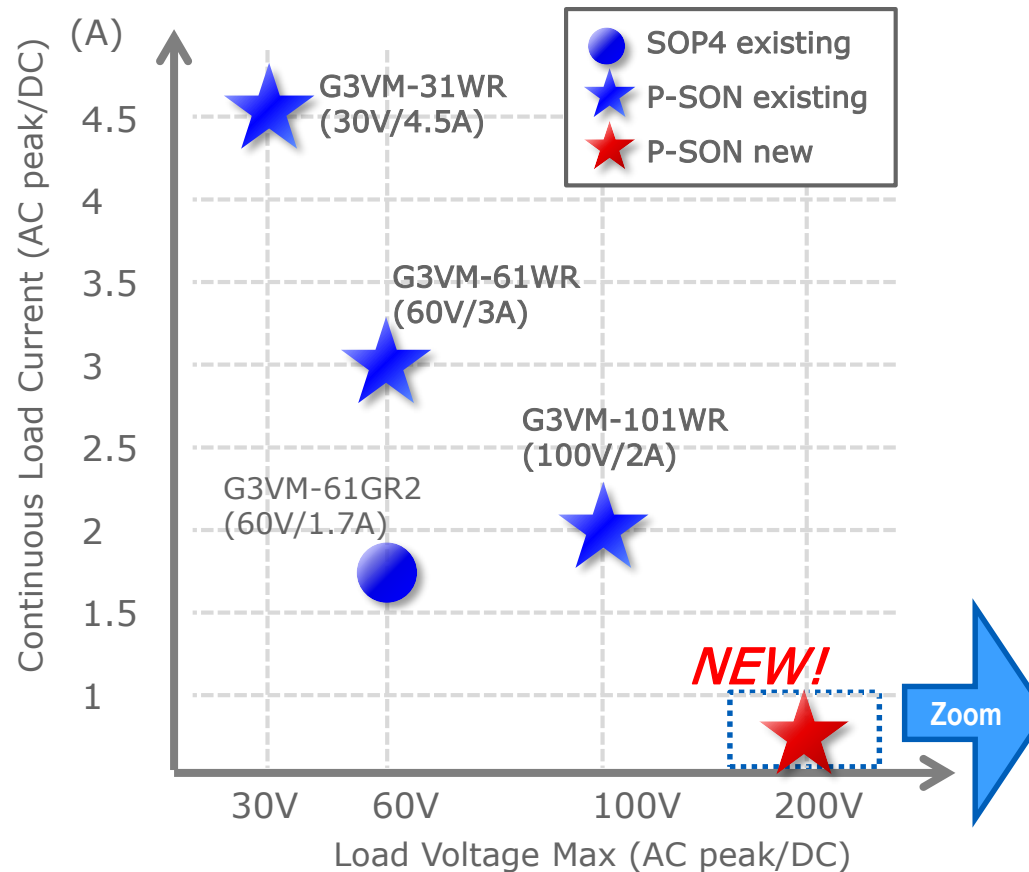
Performance

	New!
	G3VM-201WR
Type	Small Size & Higher Current
Package	P-SON4
Contact form	1a
Load voltage max. (V _{OFF})	200V
Continuous load current Max. (I _O)	0.35A
Pulse ON current (I _{op}) t=100ms, Duty=1/10	1.05A
Resistance with Output ON Typ. (R _{ON})	4.5Ω
Capacitance between output terminal Typ.(C _{OFF})	75pF
Trigger LED forward current Max. (I _{FT})	3.0mA
Turn-ON Time Max. (t _{ON})	1ms
Turn-OFF Time Max. (t _{OFF})	1ms
Dielectric strength between I/O (V _{I-O}) *	500V _{rm}
Ambient operating temperature (T _a)*AC peak/DC	-40 to +110°C

P-SON Product Map

- New Product is smaller than Omron's existing SOP4
- G3VM-WR can withstand more than 1.5 times load Current than existing product

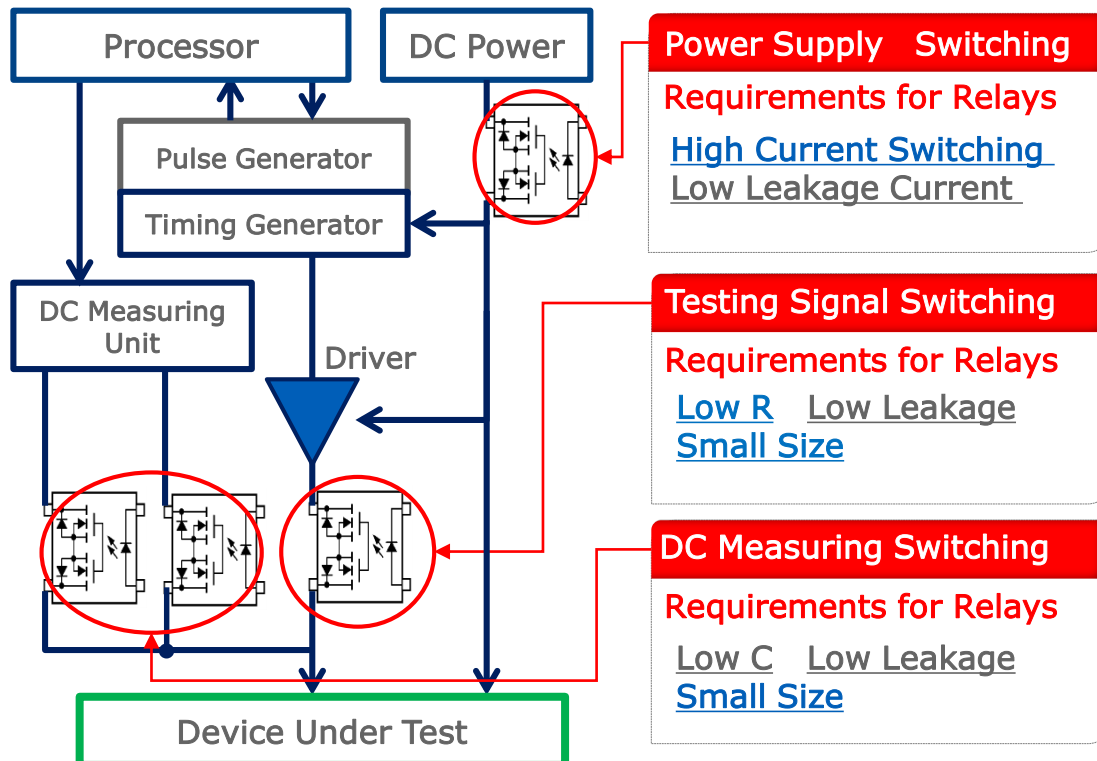
	P-SON	SOP4
Model	G3VM-□ W □	G3VM-□ G □
Outline		
Unit:mm		



Application Examples

ATE/Measurement

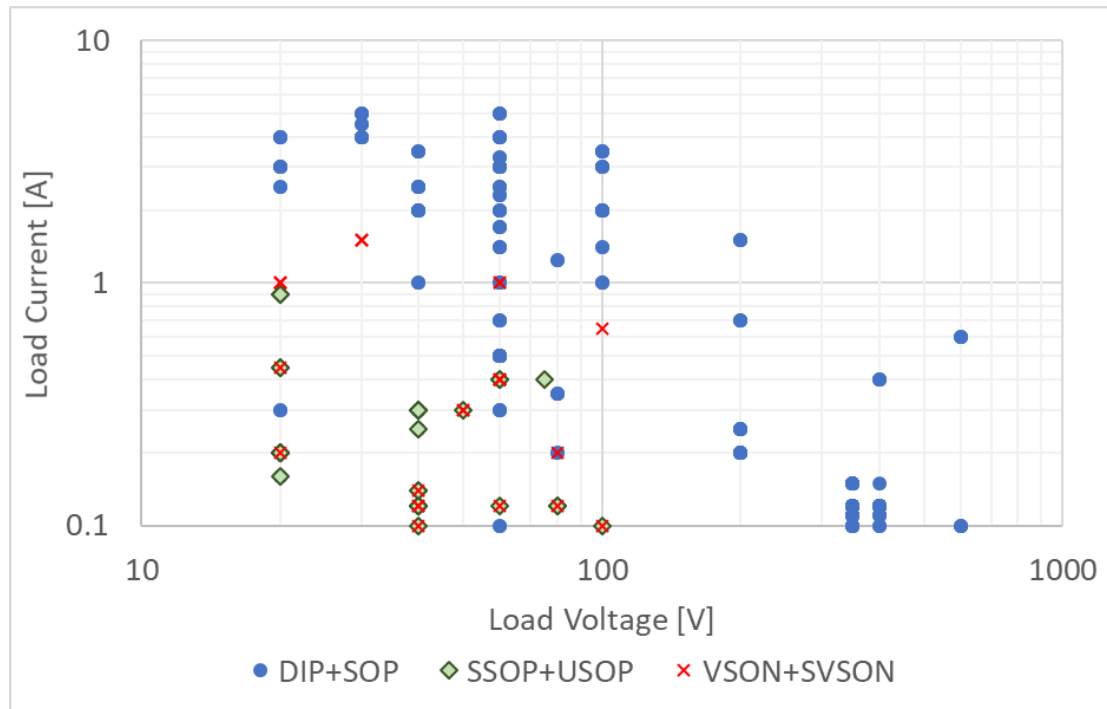
- Device Power Supply (DPS)
- Test signal switching



P-SON	V_{OFF}	I_O	R_{ON}	C_{OFF}	I_{LEAK}
	(V Max.)	(A Max.)	(Ω typ.)	(pF typ.)	(nA Max.)
G3VM-201WR	200	0.35	4.5	75	10 at 200V

Existing MOSFET relay Line-Up

MOSFET relay Line-Up (Voltage vs Current)



DIP, SOP
High current, Diversity

SSOP, USOP
Diversity

VSON, S-VSON
Focus on ATE

DIP	SOP	SSOP	USOP	VSON(R)	VSON	S-VSON
Bottom surface 100%	Bottom surface 59%	Bottom surface 26%	Bottom surface 21%	Bottom surface 12%	Bottom surface 12%	Bottom surface 12%
						* 82% of VSON S-VSON(L)

G3VM for ATE customers

- New Product "P-SON" has higher current
- We may propose the following existing products if the end product requires smaller componentry

Package	Product Name	Load Voltage	Load Current	Output Resistance (typ.)	Output Capacitance (typ.)	tON (typ.)	tON (max)	tOFF (typ.)	tOFF (max)	
		[V]	[A]	[Ohm]	[pF]	[ms]		[ms]		
 VSON	G3VM-21UR10	20	0.20	3.00	0.80	0.05	0.20	0.02	0.20	
	G3VM-21UR1		0.45	0.80	5.00	0.17	0.40	0.02	0.40	
	G3VM-21UR11		1.00	0.18	40.00	-	2.00	-	1.00	
	G3VM-41UR12	40	0.10	15.00	0.30	0.05	0.20	0.03	0.20	
	G3VM-41UR10		0.12	12.00	0.45	-	0.20	-	0.30	
	G3VM-41UR11		0.14	7.00	0.70	0.06	0.20	0.03	0.20	
	G3VM-51UR	50	0.30	1.00	12.00	-	0.50	-	0.40	
	G3VM-61UR1	60	0.12	10.00	0.70	0.05	0.20	0.02	0.20	
	G3VM-61UR		0.40	1.00	20.00	-	0.50	-	0.50	
	G3VM-81UR	80	0.12	7.00	5.00	-	0.50	-	0.20	
	G3VM-81UR1		0.20	6.00	6.50	-	0.40	-	0.40	
	G3VM-101UR	100	0.10	8.00	6.00	-	0.30	-	0.30	
	 S-VSON	G3VM-31QR	30	1.50	0.10	120.00	0.80	2.00	0.05	1.00
		G3VM-41QR10*	40	0.12	11.00	0.45	0.08	0.20	0.04	0.30
G3VM-61QR		60	0.40	1.10	12.00	-	0.50	-	0.30	
G3VM-61QR2			1.00	0.20	80.00	0.75	2.00	0.04	0.30	
G3VM-101QR1		100	0.65	0.40	50.00	0.60	2.00	0.04	0.30	

*S-VSON(L)

Pulse current is 3times of Load Current(Almost of all) 100ms. Duty=1/10



■ Thank You