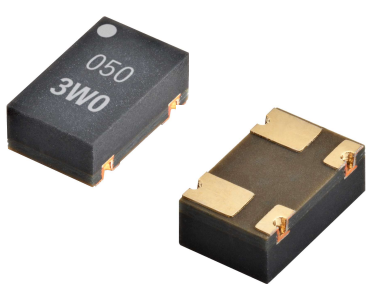
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NEW

New Product Information

MOSFET Relay G3VM-201WR

P-SON Higher current type



Nov. 2021
Relay Group
Diversified Products Division

ELECTRONIC AND MECHANICAL COMPONENTS COMPANY

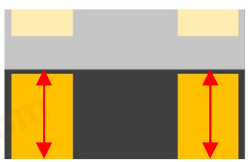
OMRON

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Value proposition

1 High current with small package

- High heat dissipation by improved terminal pad design
- Realized 1.5 times higher load current vs. existing product

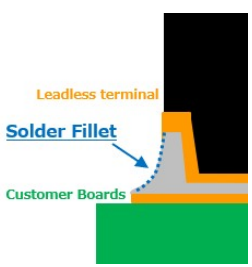


Bottom view of
G3VM-201WR terminal

2 Good solder joint and Solder visibility

- Improved terminal shape contribute good soldering





3 Small MOQ

- Provide flexibility by 500 pcs per taping reel packing

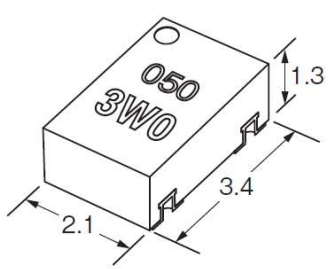
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Feature of G3VM-201WR

New MOSFET Relay suitable for test & measurement applications

- Small size **P-SON** package
- High current **200V 0.35A** rating balancing with small size
- High ambient operating temperature range up to **+110°C**

Type name	**G3VM-201WR**
Package	P-SON* 4-pin
Contact form	SPST-NO (1a)
Load voltage max. (V_{OFF})	**200V**
Continuous load current Max. (I_O)	**0.35A**
Pulse ON current (Iop) 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}) **	500Vrm
Ambient operating temperature (Ta)	**-40 to +110℃**

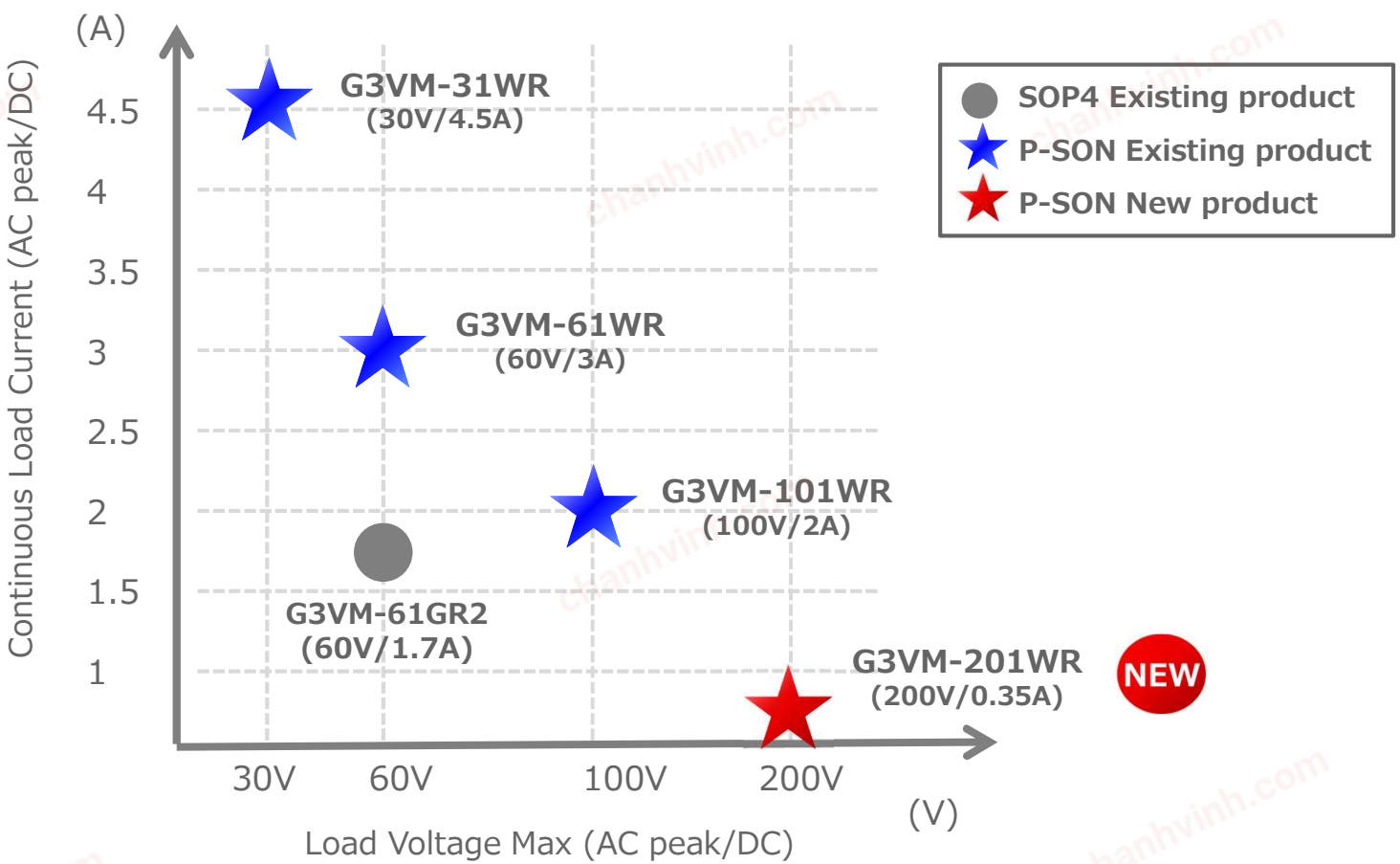


* Power – Small Outline Non-Leaded
**AC peak/DC

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Product portfolio

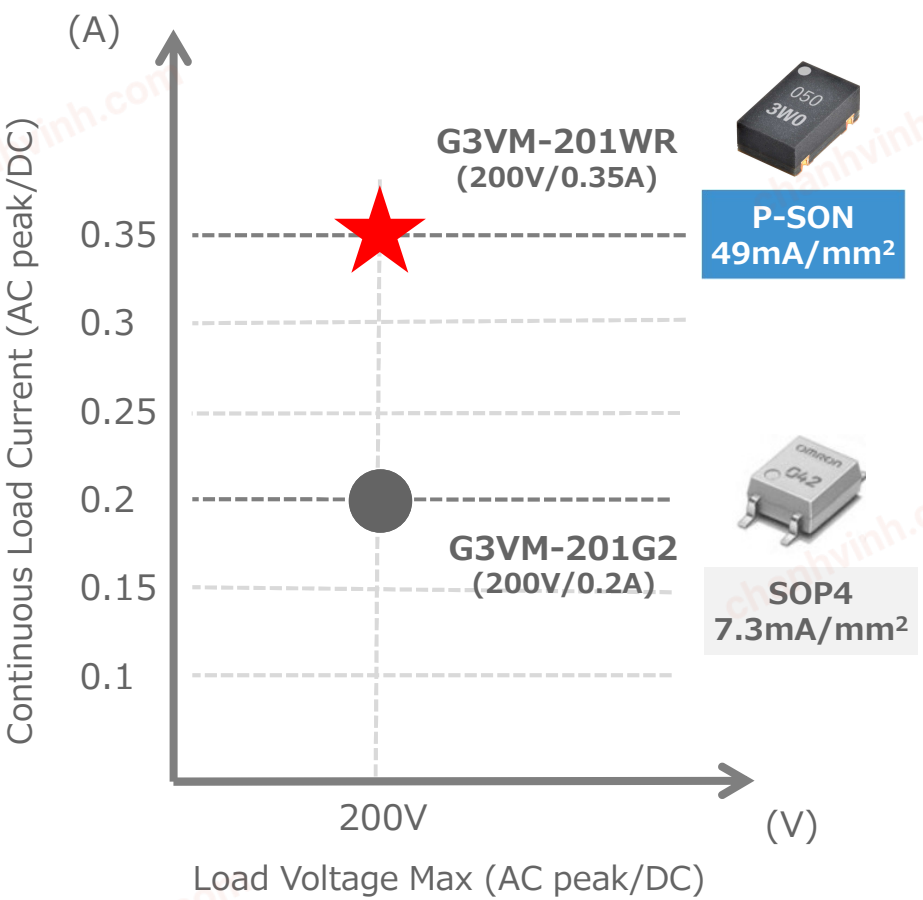
New High voltage lineup of P-SON G3VM-□WR series

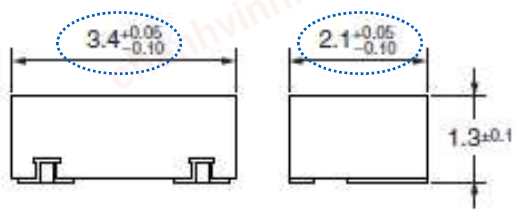


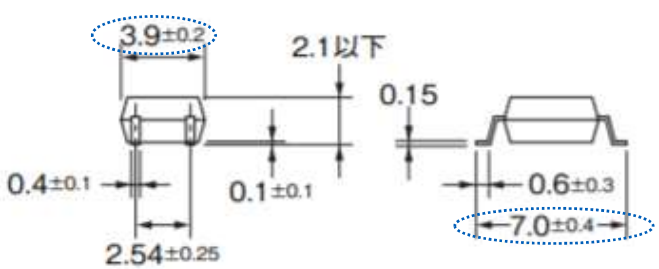
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High current feature

- **G3VM-201WR realized ≥1.5 times higher current vs. SOP4 type**
- **P-SON package contribute smaller PCB mounting area**



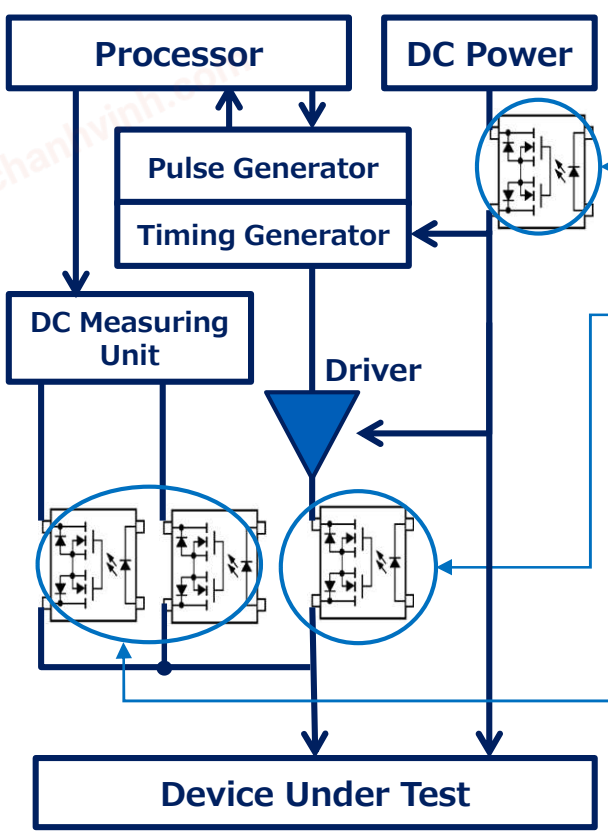




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Target application

- **G3VM-201WR is suitable for Test & Measurement applications**
- **Can be alternative solution for SOP4 type and Read relays**



Power supply switching

- High Current Switching
- Low Leakage Current

Test signal switching

- Low ON resistance
- Low Leakage Current
- Small size

Test signal switching

- Low Capacitance
- Low Leakage Current
- Small size

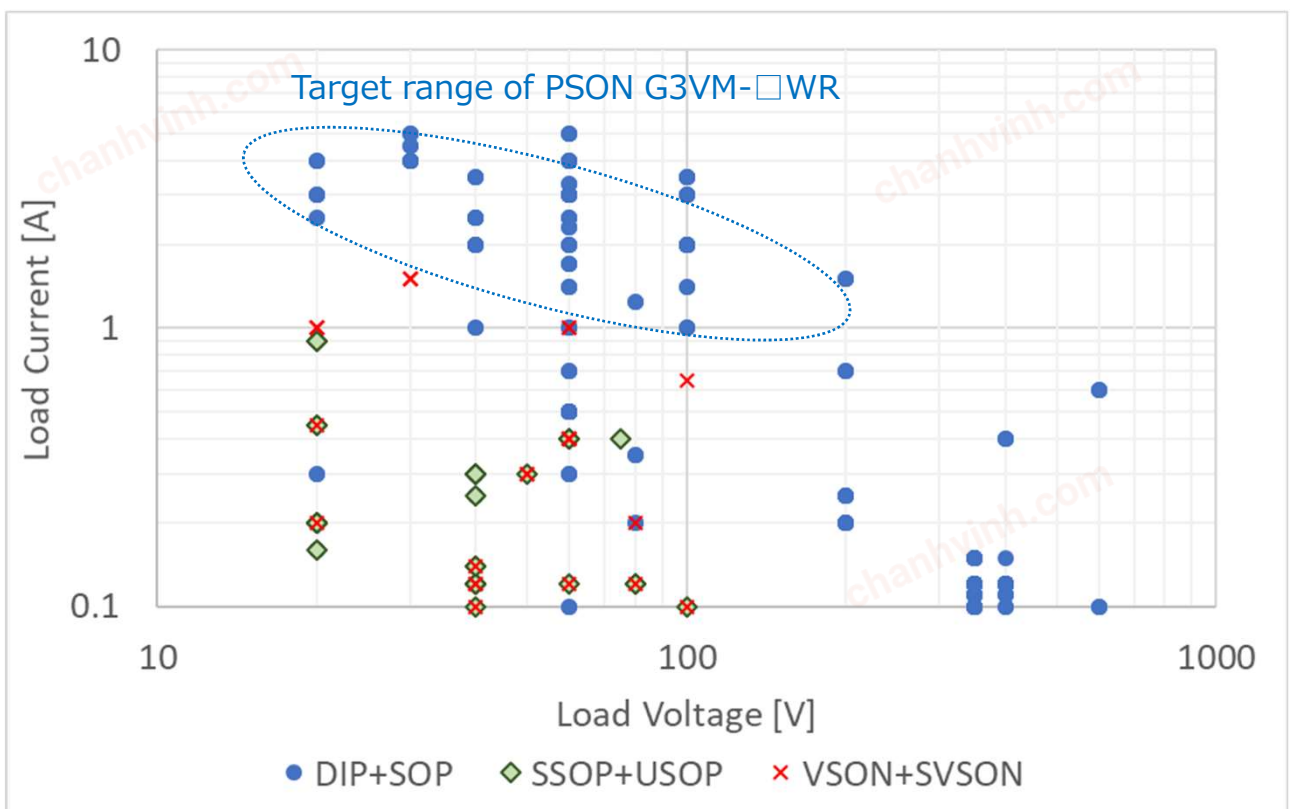


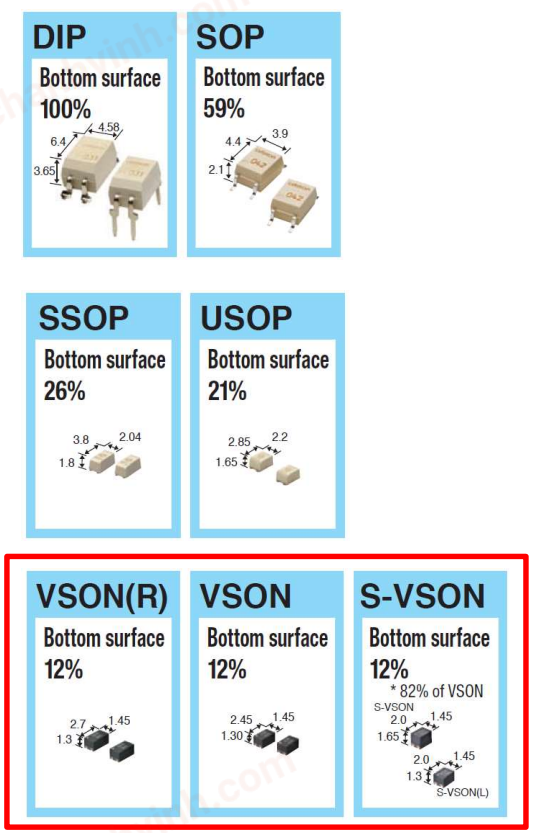
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Proposal for smaller size

We can offer VSON, SVSON type in case smaller size is required

Product portfolio of Omron MOSFET Relay





Smaller size products
for ATE application

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VSON & V-SON product lineup

We have various type of VSON & V-SON MOSFET Relays

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 for your attention

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