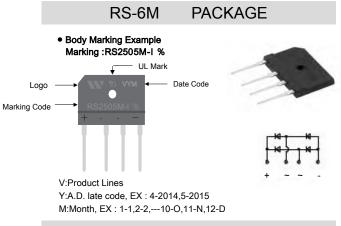
RS2505M-U1

25A GLASS PASSIVATED ULTRA LOW VF BRIDGE RECTIFIERS - 600V

PRIMARY CHARACTERISTICS		
V _{RRM}	600V	
I _(AV)	25.0A	
V _F	0.92V	
l ² t	508A ² s	
T _{J,Max}	150 ℃	

FEATURES

- Rating to 600V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Moisture Sensitivity Level 1



MECHANICAL DATA

- Case : Molded plastic,RS-6M
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

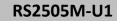
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	RS2505M-WF	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100°C (without heatsink)	I(AV)	25.0 4.2	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	350	А
Maximum Forward Voltage at 12.5A DC	VF	0.92	V
Maximum DC Reverse Current @ TJ=25℃ at Rated DC Blocking Voltage @ TJ=125℃	lr	10.0 500	μA
I ² t Rating for Fusing (t<8.3ms)	l ² t	508	A ² s
Typical Junction Capacitance Per Element (Note1)	Сл	85	pF
Typical Thermal Resistance	Rejc	0.6	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.



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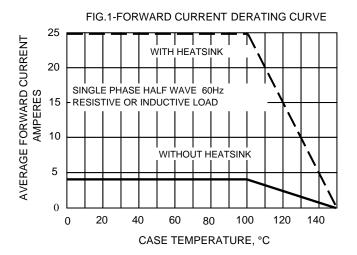
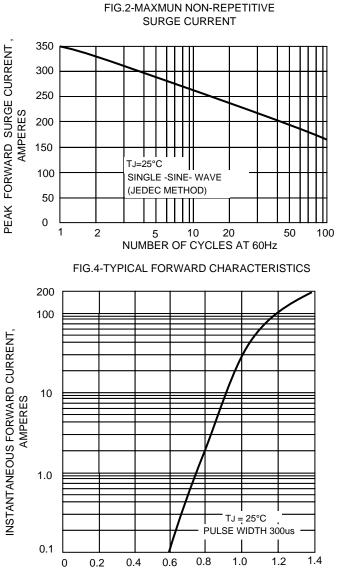


FIG.3-TYPICAL JUNCTION CAPACITANCE

10.0

REVERSE VOLTAGE, (VOLTS)

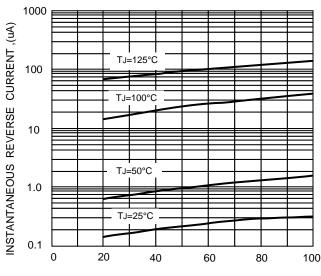
WILLAS



INSTANTANEOUS FORWARD VOLTAGE. VOLTS



100



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

1000

100

10

1.0

1.0

TJ=25°C,f=1MHz

CAPACITANCE, (pF)

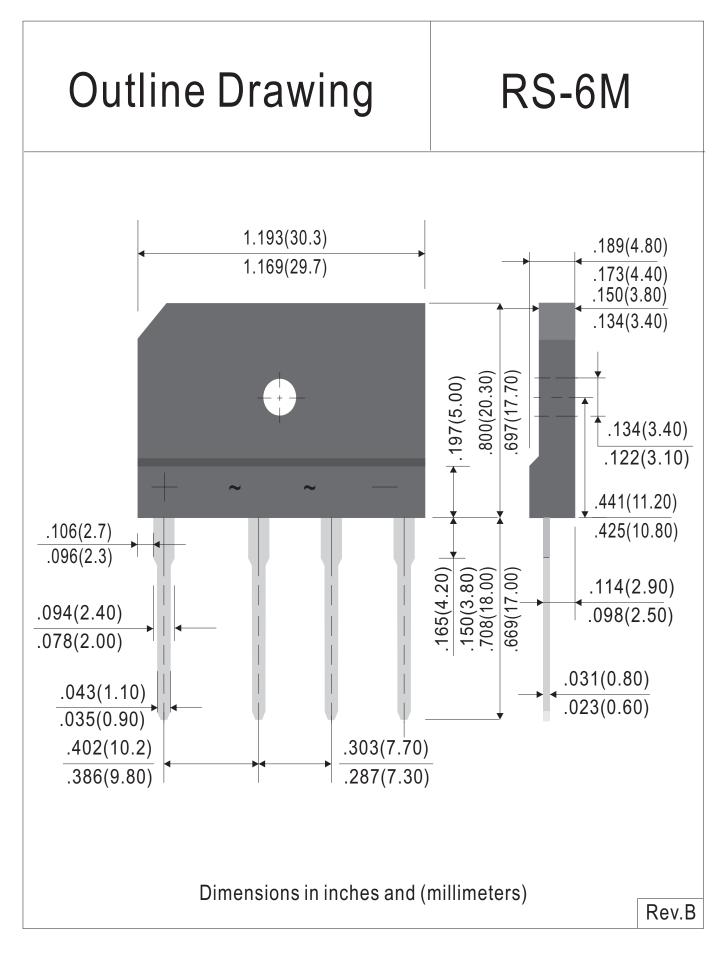
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Rev. 0

RS2505M-U1



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Ordering Information:

Device PN	Packing
RS2505M-y ⁽¹⁾ G ⁽²⁾ -WS	Tube Packing:15pcs/Tube; 600pcs/Box

Note: 1. Packing code: Empty is Tube Packing

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H".

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