

PRIMARY CHARACTERISTICS

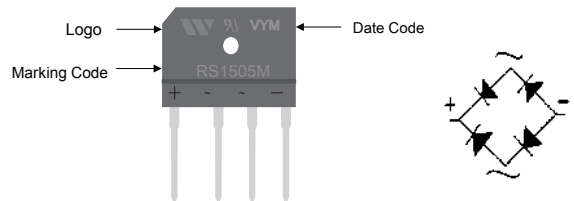
V_{RRM}	600V,800V,1000V
I_O	15A
V_F	1.05V
$T_{J,Max}$	150°C

SCHEMATIC DIAGRAM

RS-6M PACKAGE

Marking : See Table

Ex : RS1505M-03



V:Product Lines

Y:A.D. late code, EX : 4-2014,5-2015

M:Month, EX : 1-1,2-2,---10-O,11-N,12-D

FEATURES

- Low forward voltage,high forward current
- High forward surge current capability
- High heat-conducting performance
- Thermal welding performance: 260°C/10sec
- 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 (@ TA=25°C unless otherwise noted)

RATINGS		SYMBOL	RS1505M-03	RS1506M-03	RS1507M-03	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RM}	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	600	800	1000	Volts
Maximum Average Forward Rectified Current	$T_a = 25^\circ C$	I_O	3.5			Amps
	$T_c = 100^\circ C$		15.0			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	250			Amps
Rating for Fusing (1ms ≤ t < 8.3ms, Tj = 25°C)		I^2t	259			A ² s
Typical Thermal Resistance Junction to ambient , without heatsink		$R_{\theta JA}$	22.0			°C/W
Typical Thermal Resistance Junction to case, with heatsink		$R_{\theta JC}$	1.5			
Dielectric Strength : Terminals to Case, AC 1 minute		V_{dis}	2.5			KV
Operating Storage Temperature Range		T_J	150			°C
Storage Temperature Range		T_{STG}	-55 ~ +150			°C

ELECTRICAL CHARACTERISTICS (@TA=25 OC unless otherwise noted)

CHARACTERISTICS	SYMBOL	RS1505M-03	RS1506M-03	RS1507M-03	UNITS
Marking Code		RS1505M	RS1506M	RS1507M	
Maximum Instantaneous Forward Voltage at 7.5A DC	V_F	1.05			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_A = 25^\circ C$	10.0			uAmps
	@ $T_A = 100^\circ C$	500			
Mounting torque	TOR	Recommended torque:0.5			N.m

NOTES : Recommended heatsink size: 12.7*10.2*7.6cm

Characteristic Curve

Fig.1: Current Derating Curve

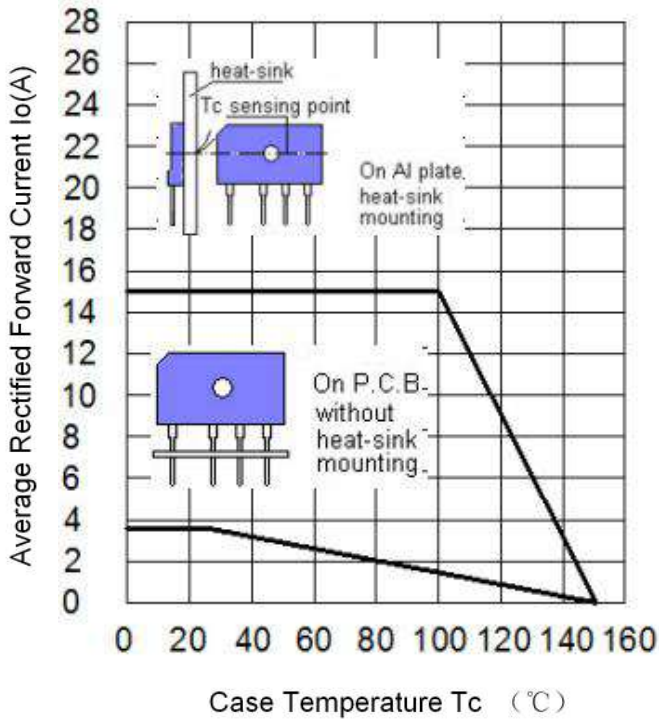


Fig.2 Typical Reverse Characteristics

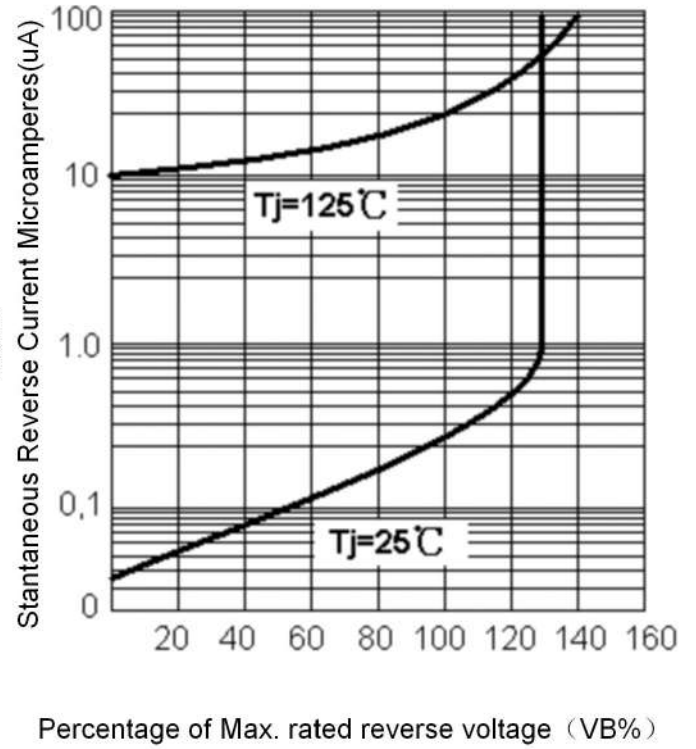


Fig.3: Max. Surge Current

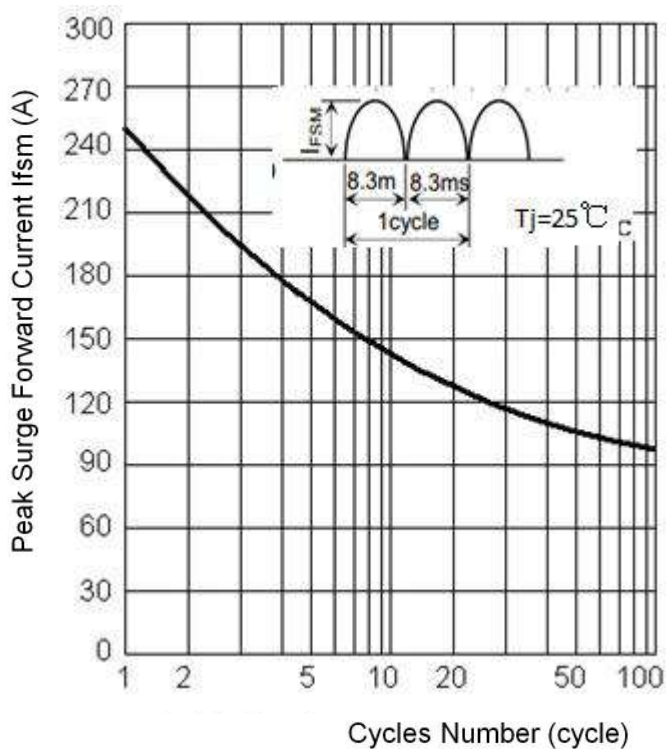
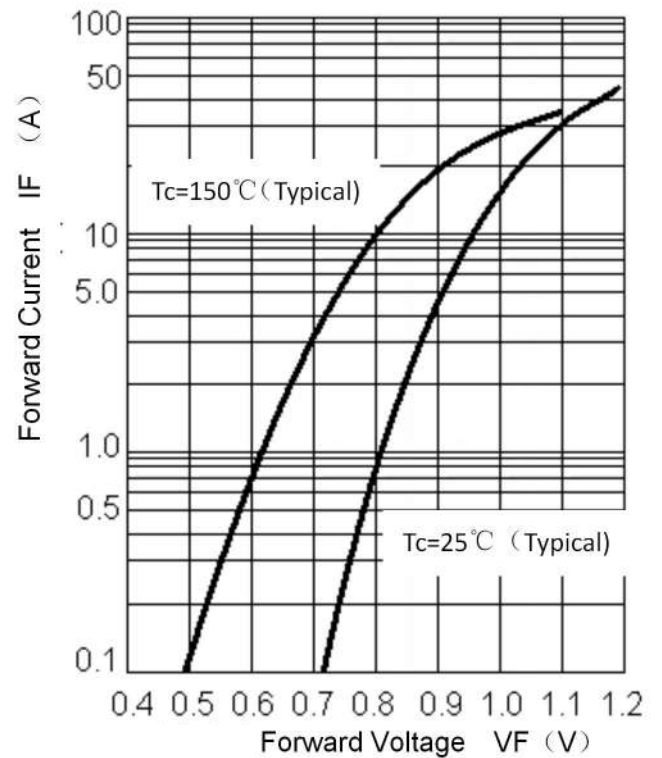
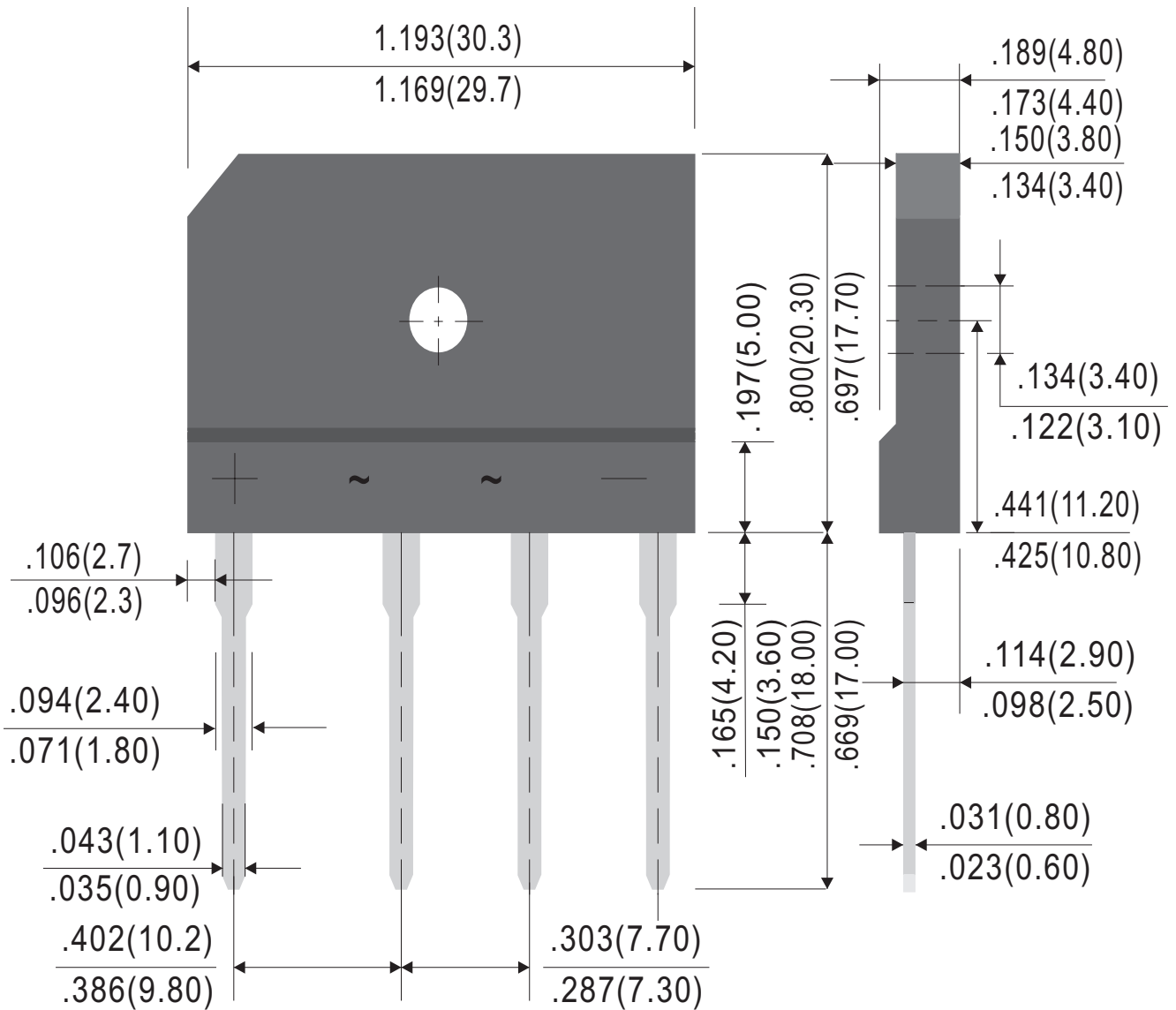


Fig.4: Rated Forward Features



Outline Drawing

RS-6M



Dimensions in inches and (millimeters)

Rev.D

Ordering Information:

Device PN	Packing
Part Number -B ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Bulk Packing: 200 pcs/Box

Note: (1) Packing code, B: Bulk Packing.

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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