



RS2AH THRU RS2MH

FAST RECOVERY RECTIFIERS

REVERSE VOLTAGE: 50 to 1000 VOLTS
FORWARD CURRENT: 2.0 AMPERE

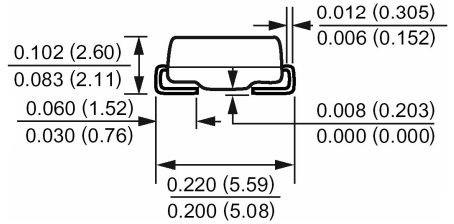
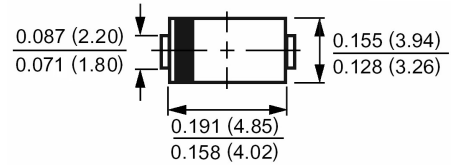
FEATURES

- High Current Capability
- Fast Recovery Times for High Efficiency
- For Surface Mounted Applications
- Suffix "H" indicates Halogen-free parts, ex. RS3AH

MECHANICAL DATA

Case : Molded plastic : DO-214AA (SMB)
 Epoxy : UL 94V-O rate flame retardant
 Terminals : Solder plated, solderable per MIL-STD-750,
 method 2026 guaranteed
 Polarity : Color band denotes cathode end
 Mounting position : Any

DO-214AA (SMB)



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	RS2AH	RS2BH	RS2DH	RS2GH	RS2JH	RS2KH	RS2MH	Units
		RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	
Marking Code									
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_L=90^\circ\text{C}$	$I_{(AV)}$	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0							Amp
Maximum Instantaneous Forward Voltage at 2.0A and 25°C	V_F	1.3							Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R	5 200							μAmp
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	20							°C/W
Maximum Reverse Recovery Time (Note 2)	t_{rr}	150				250	500		ns
Operating and Storage Temperature Range	T_J, T_{stg}	-65 to +150							°C

NOTES:

- 1- Thermal resistance from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas
- 2- Reverse recovery test conditions: $I_F=5A$, $I_R=1A$, $I_{RR}=25A$.



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RATINGS AND CHARACTERISTIC CURVES

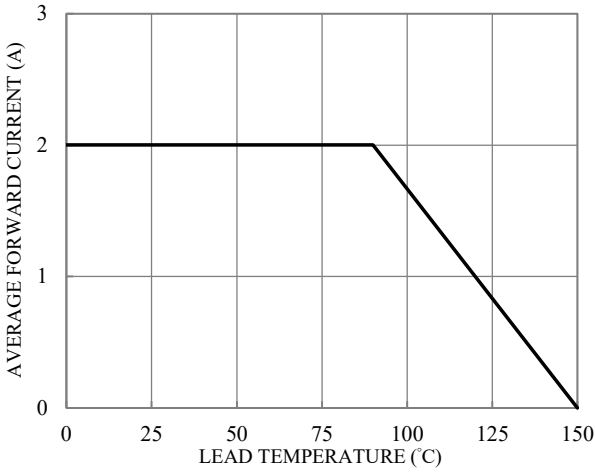


Fig.1-FORWARD CURRENT DERATING CURVE

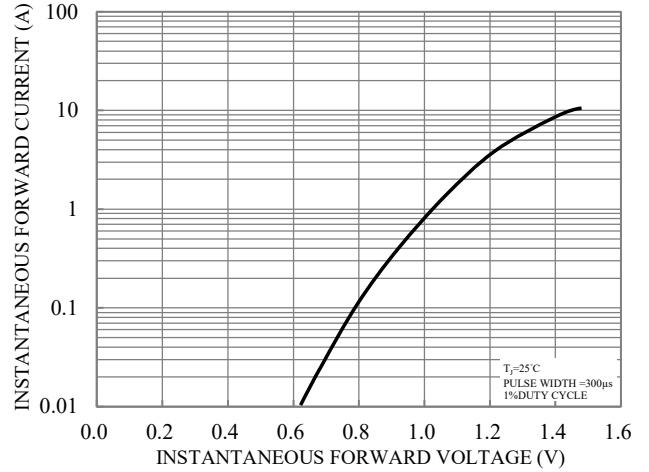


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

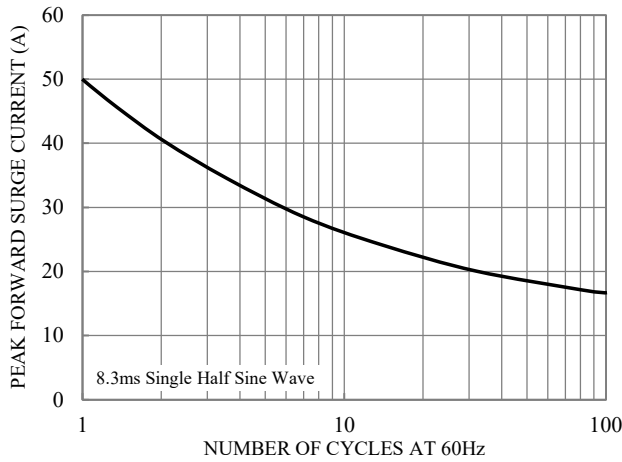


Fig.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

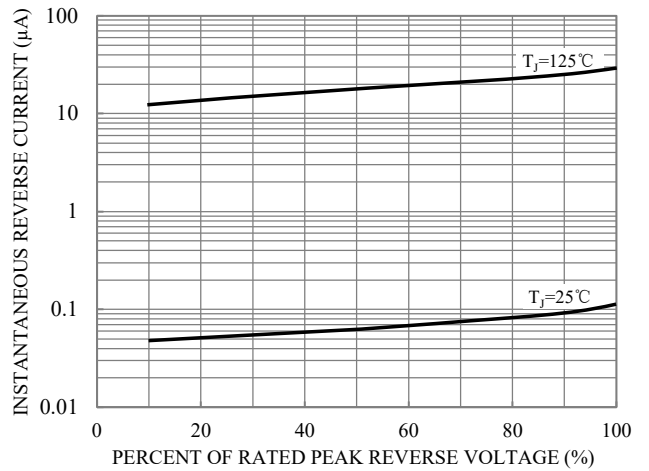


Fig.4-TYPICAL REVERSE CHARACTERISTICS