



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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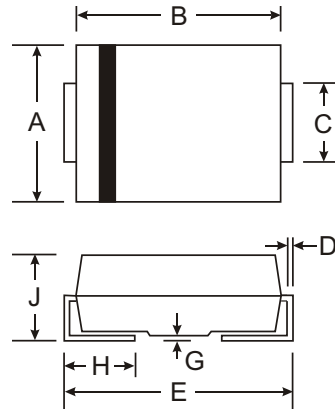
NOT RECOMMENDED FOR NEW DESIGNS,
PLEASE USE RS1AB - RS1MB

Features

- For Surface Mounted Applications
- Capable of Meeting Environmental Standards of MIL-STD-19500
- Plastic Material - UL Flammability Classification 94V-0
- High Reliability
- Submersible Temperature of 265 °C for 10 Seconds in Solder Bath
- Glass Passivated Junction

Mechanical Data

- Case: SMB, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Approx. Weight: 0.093 grams
- Mounting Position: Any



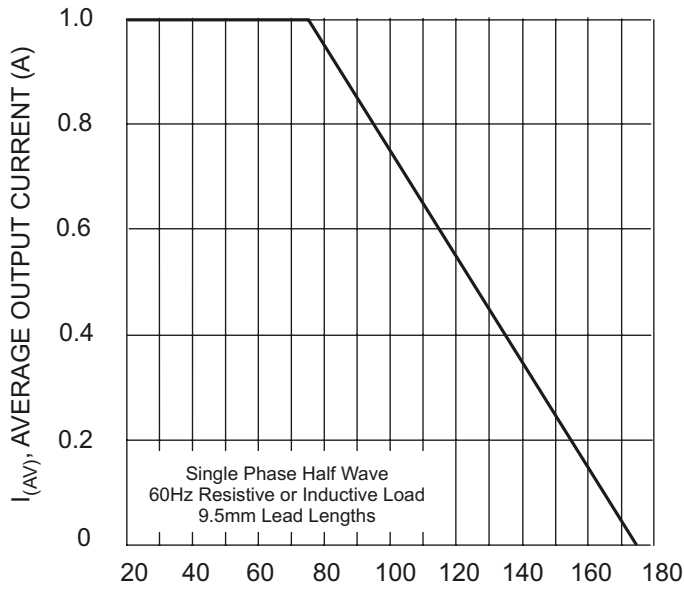
SMB		
Dim	Min	Max
A	3.30	3.94
B	4.00	4.65
C	1.95	2.21
D	0.15	0.40
E	5.00	6.00
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

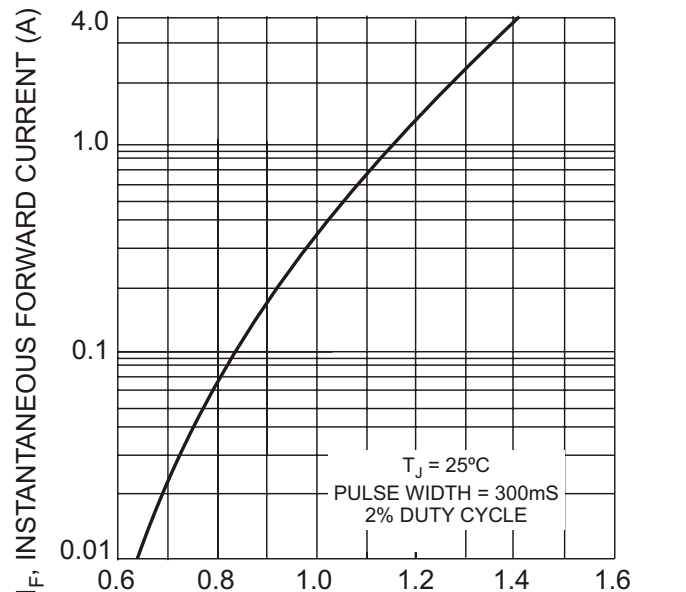
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz resistive or inductive load.

Characteristic	Unit	FR1A	FR1B	FR1D	FR1G	FR1J	FR1K	FR1M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A = 75^\circ\text{C}$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage at 1.0 A	V_F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$ @ $T_A = 125^\circ\text{C}$	I_R	5.0							μA
Maximum Full Load Reverse Current Full Cycle Average @ $T_A = 75^\circ\text{C}$		50							μA
Maximum Reverse Recovery Time (See Note 1)	t_{rr}	150			250	500	500	ns	
Maximum Thermal Resistance (See Note 2)	$R_{\theta JL}$	30							$^\circ\text{C/W}$
Typical Junction Capacitance (See Note 3)	C_J	15							pF
Operating and Storage Temperature Rating	T_J, T_{STG}	-65 to +175							$^\circ\text{C}$

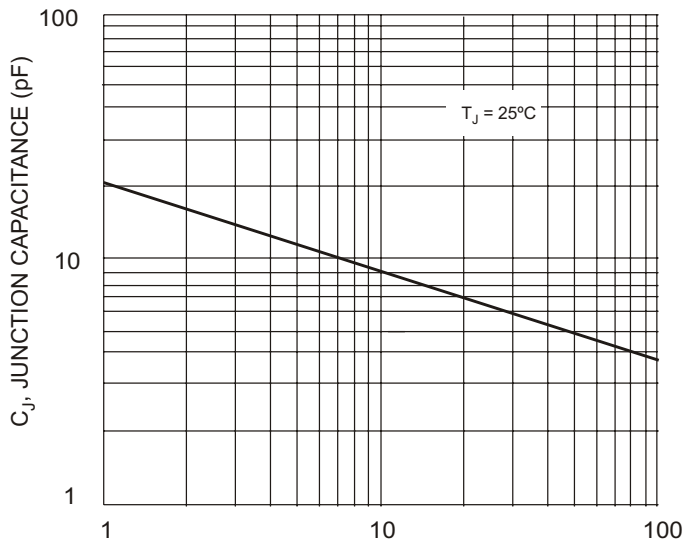
- Notes:
1. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{RR} = 0.25\text{A}$
 2. Thermal Resistance from junction to lead with 6.0mm² copper pads
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V



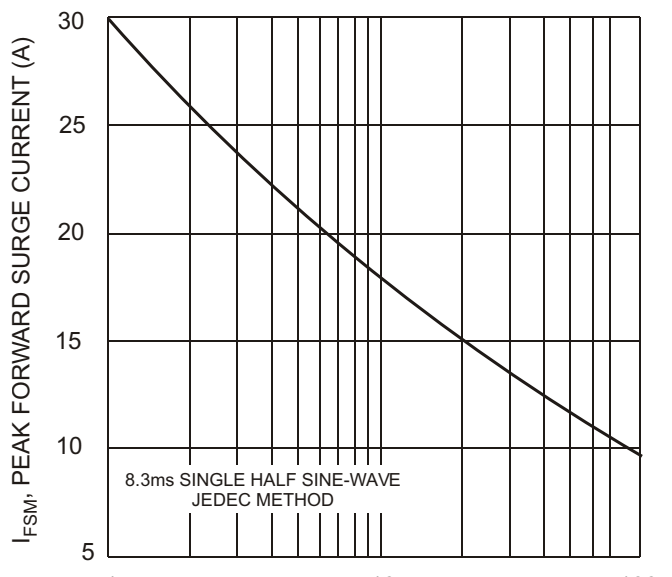
T_A , AMBIENT TEMPERATURE ($^{\circ}C$)
Fig. 1, Forward Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2, Typical Forward Characteristics



V_R , REVERSE VOLTAGE (V)
Fig. 3, Capacitance Characteristics



NUMBER OF CYCLES @ 60Hz
Fig. 4, Max Non-Repetitive Peak Forward Surge Current