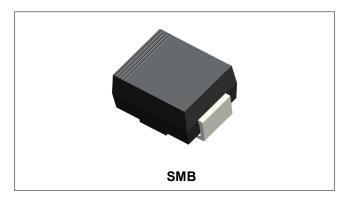


RoHS



FR2A-FR2M 2.0A SURFACE MOUNT FAST RECOVERY RECTIFIER



Features

- Glass passivated Die Construction
- Ideal Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Fast Recovery Time
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

Case: SMB molded plastic

- Terminals: Solder plated, solderable per MIL-STD-750,
- Method 2026
- · Polarity: Color band denotes cathode end
- Mounting Position: Any Weight: 0.09grams

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	FR2A	FR2B	FR2D	FR2G	FR2J	FR2K	FR2M	Units
Peak Repetitive Reverse Voltage DC Blocking Voltage	V _{RRM} V _{DC}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current @T _L = 90°C	I _(AV)	2.0				А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50			А				
Forward Voltage @I _F =2.0A	V _{FM}	1.30			٧				
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	5.0 300.0			μA				
Reverse recovery time (Note 1)	t _{rr}	150 250 500		00	ns				
Typical Junction Capacitance (Note 2)	CJ	50			pF				
Typical Thermal Resistance (Note 3)	R _{0JL}	20			°C/W				
Operating and Storage Temperature Range	T _{STG}	-55 to +150			°C				

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

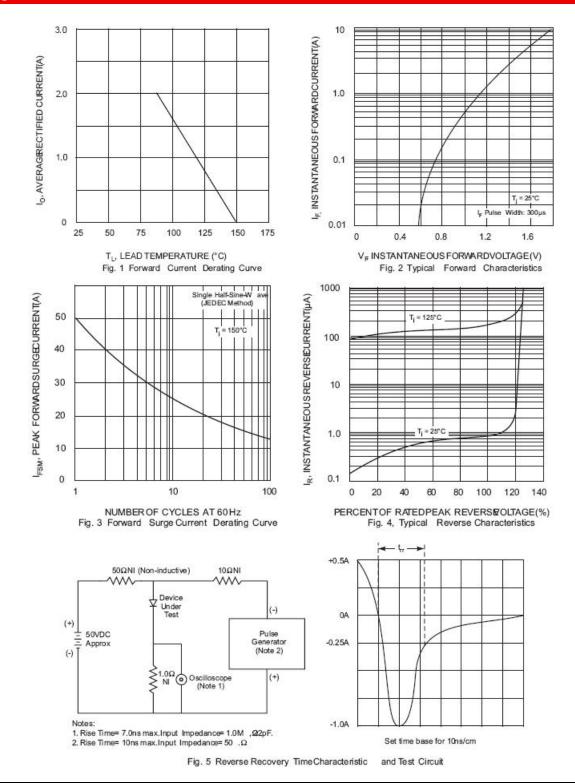
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Mounted on P.C.B Board with 8.0mm² land area.
 - China Germany Korea Singapore United States
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 sales@ smc-diodes.com







Ratings and Characteristics Curves



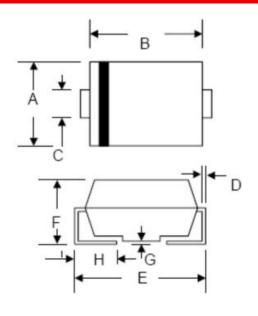
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Mechanical Dimensions SMB



SYMBOL	Millir	neters	Inches			
STIVIBUL	Min.	Max.	Min.	Max.		
Α	3.30	3.94	0.130	0.155		
В	4.06	4.70	0.160	0.185		
С	1.80	2.20	0.071	0.087		
D	0.152	0.305	0.006	0.012		
E	4.80	5.59	0.189	0.220		
F	2.10	2.60	0.083	0.102		
G	0.051	0.203	0.002	0.008		
Н	0.76	1.52	0.030	0.060		

Ordering Information

Device	Package	Shipping		
FR2A-FR2M	SMB	3000pcs / reel		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



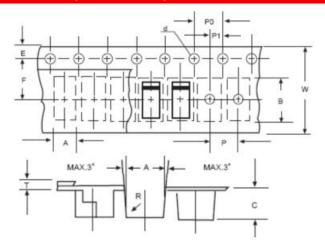
Where XXXXX is YYWWL

FR2A = Part Name
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Carrier Tape & Reel Specification SMB



SYMBOL	Millimeters			
STWIBUL	Min.	Max.		
Α	3.99	4.19		
В	5.72	5.92		
С	3.23	3.43		
d	1.40	1.60		
E	1.40	1.60		
F	5.60	5.70		
Р	7.90	8.10		
P0	3.90	4.10		
P1	1.90	2.10		
T	-	0.60		
W	11.80	12.20		

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