# RS2MB

### Fast recovery diode Reverse Voltage1000v Forward current-2A

#### **Features**

Glass passivated chip
High surge current capability
Ldeal for surface mounted applications
Low power loss, high efficiency
Plastic Case Material has UL Flammability

#### Mechanical Data

Package: SMB

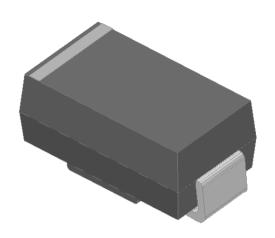
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

**ROHS-compliant** 





### Maximum Ratings (Ta=25 °C Unless otherwise specified)

Type Number	SYMBOL	RS2MB	Umit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V	
Maximum RMS Voltage	V <sub>RMS</sub>	700	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	V	
Maximum Average Forward Rectified Current	IO <sub>(AV)</sub>	2.0	Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM -	50.0	Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	II OW	100.0	Α	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l <sup>2</sup> t	10.4	A <sup>2</sup> S	
Maximum Forward Voltage at 2.0A DC	$V_{\sf FM}$	1.30	V	
Maximum Reverse Current TA = 25℃	ID	5.0	^	
at Rated DC Blocking Voltage TA = 125℃	IR	100.0	- uA	
Maximum reverse recovery time	Trr	500.0	ns	
Typical Thermal Resistance Between junction and	$R_{QJa}$	65.0	°C/W	
Operating Junction Temperature Range	T <sub>J</sub>	—55to+150	$^{\circ}\!\mathbb{C}$	
Storage Temperature Range	T <sub>STG</sub>	—55to+150	$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

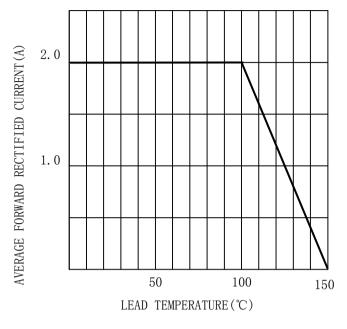


FIG. 2TYPICAL FORWARD CHARACTERISTICS

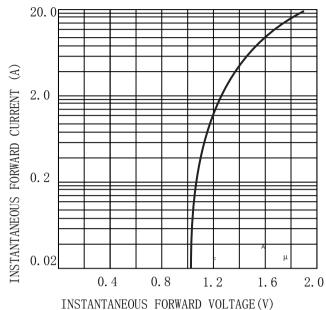


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

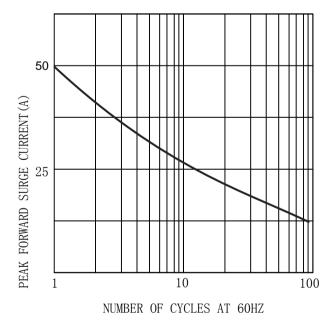
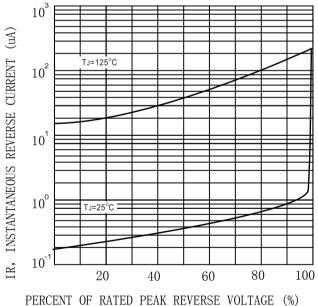


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





### **MARKING INFORMATION**



🤝 = Logo

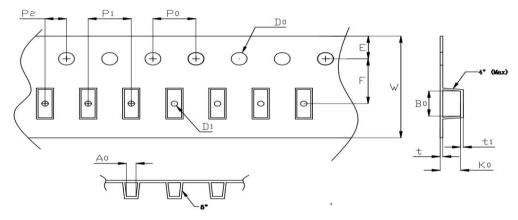
\*\*\*\* = Date Code Marking

RS2M = Marking Code

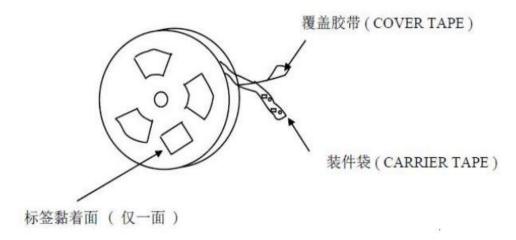
Print according to customer request

## **PACKING REQUIRMENTS**

· Carrier tape packing



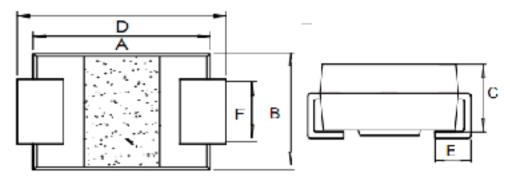
Specificati ons	Carrier tape type	Ao	Во	Ко	Ро	W	t	Exiplain
SMB	Anti-static	3.8± 0.10	5.4± 0.10	2.45± 0.10	4.00± 0.10	12.0± 0.10	0.23± 0.05	



DEVICE	Tape	13"Reel			
TYPE	width	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
SMB	12mm	3000	20	60000	

# Outline Dimensions

# SMB



SMB					
DIM	INC HES		MM		
	MIN	MAX	MIN	MAX	
A	0. 16	0.19	4	4.8	
В	0. 13	0.15	3.3	3. 9	
С	0.08	0.10	2	2.5	
D	0. 18	0.22	4.5	5. 5	
Е	0.03	0.06	0.7	1.5	
F	0.06	0.10	1.5	2.5	



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