

Green Products

RS2A-RS2M FAST RECOVERY RECTIFIERS Surface Mount - 2A

Features:

- Fast switching for high efficiency
- Low leakage current
- High forward surge capability
- Solder dip 260 °C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

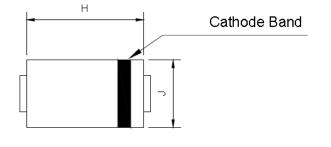
Mechanical Data:

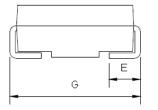
- Case: SMB molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.09 grams

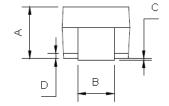


RS2A

Mechanical Dimensions: In mm / Inches







DIMENSIONS								
DIM A B C D E G H	INCHES		М	NOTE				
	NMI	MAX	NMI	MAX	NOTE			
Α	0.083	0.096	2.13	2.44				
В	0.075	0.083	1.91	2.11				
С	0.002	0.008	0.051	0.203				
D		0.02		0.51				
Е	0.030	0.060	0.76	1.52				
G	0.150	0.220	4.80	5.59				
Н	0.160	0.185	4.06	4.70				
J	0.130	0.155	3.30	3.94				

SMB

MARKING, MOLDING RESIN

Marking for RS2A/B/C/D/G/J/M, 1st row RS2A/B/C/D/G/J/M, 2nd row SSG YYWWL Where YY is the manufacture year

WW is the manufacture week code
L is the wafer's Lot Number

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Ordering Information:

Device	Package	Shipping		
RS2A-RS2M	SMB	3000pcs / reel		
ROZA-ROZIVI	(Pb-Free)	3000pcs / reer		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single Phase half wave 60Hz, resistive or inductive load. For capacitive load current derate by 20%.

Characteristic	Symbol	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Maximum average forward rectified current at $T_A = 90$ °C	I _(AV)	2.0						V	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0					Α		
Maximum instantaneous forward voltage at 2.0A	V _F	1.3				V			
Maximum DC reverse current $T_A = 25^{\circ}C$ at rated DC blocking voltage $T_A = 100^{\circ}C$	I _R	5.0 50.0					μΑ		
Maximum Reverse Recovery Time (Note 1)	Trr			150		250		500	ns
Typical junction capacitance (Note 2)	CJ	50.0						pF	
Typical thermal resistance (Note 3)	$R_{\theta JA}$	55.0					°C /W		
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +150					°C		

Note: 1. Measured with I_F =0.5A, I_R =1.0A, I_{rr} =0.25A,

- 2. Measured at 1.0 MHZ and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted

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FIG.1-FORWARD CURRENT DERATING CURVE

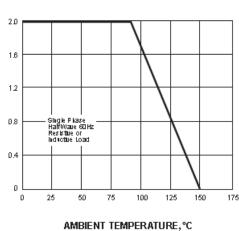


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

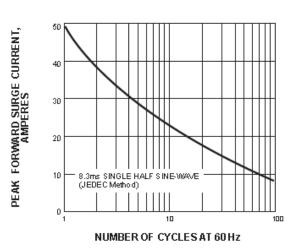
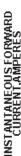
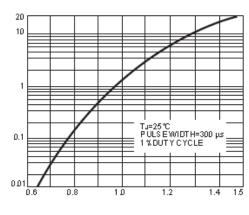


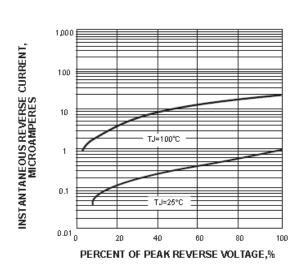
FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4-TYPICAL REVERSE CHARACTERISTICS









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