

RS2A THRU RS2M

Surface Mount Fast Recovery Rectifiers

Major Ratings and Characteristics

I _{F(AV)}	2.0 A
V _{RRM}	50 V to 1000 V
I _{FSM}	60 A
t _{rr}	150nS, 250nS, 500nS
V _F	1.3 V
T _j max.	150 °C

Features

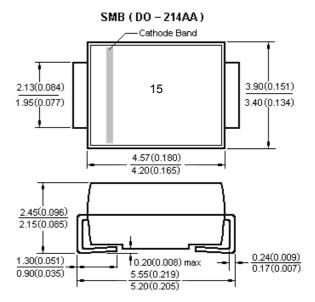
- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Fast switching for high efficiency
- High forward surage capability
- High temperatrue soldering: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- Case: JEDEC DO-214AA molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end



SMB (DO - 214AA)



Dimentsions in millimeters and (inchs)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)									
	Symbol	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum repetitive 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	I _{F(AV)}	2							Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	60							А
Maximum instantaneous forwad voltage at 2.0A	V _F	1.3							V
Maximum DC reverse current $T_A = 25 ^{\circ}C$		5.0							μA
at Rated DC blocking voltage $T_A = 125^{\circ}C$	I _R	50							μA
Maximum reverse recovery time at I _F = 0.5 A , I _R = 1.0 A , I _{rr} = 0.25 A	t _{rr}	150 250					500		nS
Typical junction capacitance at 4.0 V ,1MHz	CJ	15 1'					1	pF	
Thermal resistance from junction to ambient	$R_{ ext{ hetaJA}}$	76							°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	–55 to +150						°C	

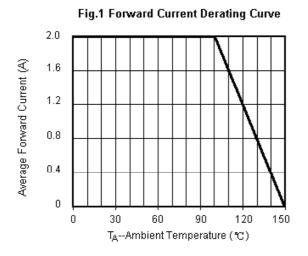
http://www.trr-jx.com

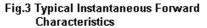




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Characteristic Curves (T_A=25 °C unless otherwise noted)





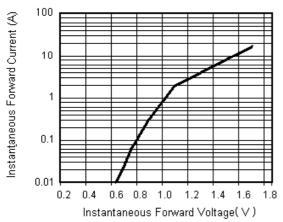
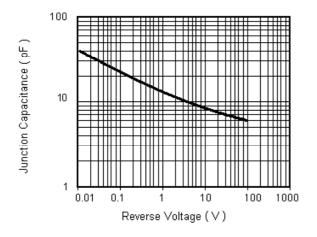


Fig.5 Typical Junction Capacitance



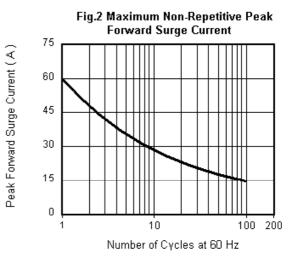
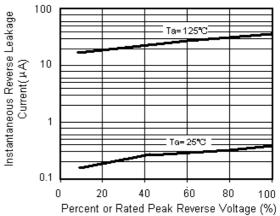


Fig.4 Typical Reverse Leakage Characteristics



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