

1.5A Surface Mount Fast Recovery Rectifier

Features

- Low profile surface mounted package
- Fast recovery time for high efficiency
- Glass passivated junction
- Plastic package has underwriters laboratory flammability classification 94 V-O
- High temperature soldering: 250 °C / 10 seconds at terminals
- RoHS compliant



Mechanical Data

Case:	JEDEC DO-214AA molded plastic
Terminals:	Solder plated solderable per MIL-STD-750, Method 2026
Polarity:	cathode end indicated by color band
Weight:	0.003 Ounce, 0.093 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}\text{C}$ unless noted)

Symbol	Description	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	Unit	Conditions
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	V	
I_{AV}	Maximum Average Forward Rectified Current	1.5						A	TL=100°C
I_{FSM}	Peak Forward Surge Current	50						A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

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RS2A~RS2K

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted)

Symbol	Description	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.3						V	I _F at 1.5A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0						μA	TA = 25 °C
		200							TA = 125 °C
t _{rr}	Typical Reverse Recovery Time	150				250	500	nS	I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A
C _J	Typical Junction Capacitance	50						pf	Measured at 1.0 MHZ and Applied V _r = 4.0V
R _{θJA}	Typical Thermal Resistance (Note1)	55						° C/W	Mounted on 0.27 x 0.27" (7.0 x 7.0mm)copper pad
R _{θJL}		18							
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-55 to 150						° C	

Typical Characteristics Curves

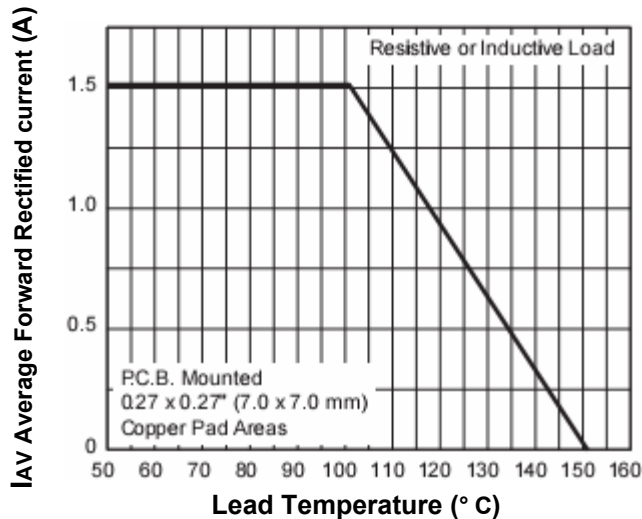


Fig.1- Forward Current Derating Curve

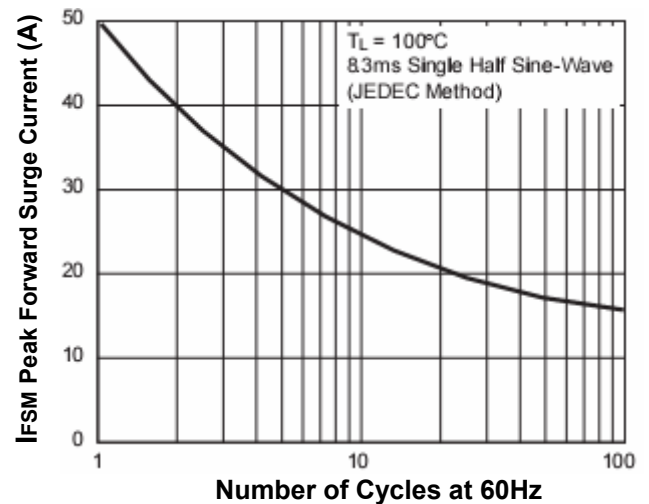


Fig.2- Max. Non-Repetitive Forward Surge Current

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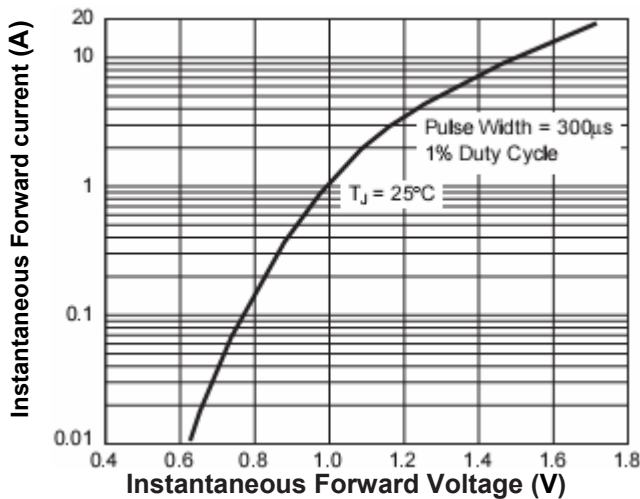


Fig.3- Typical Instantaneous Forward Characteristics

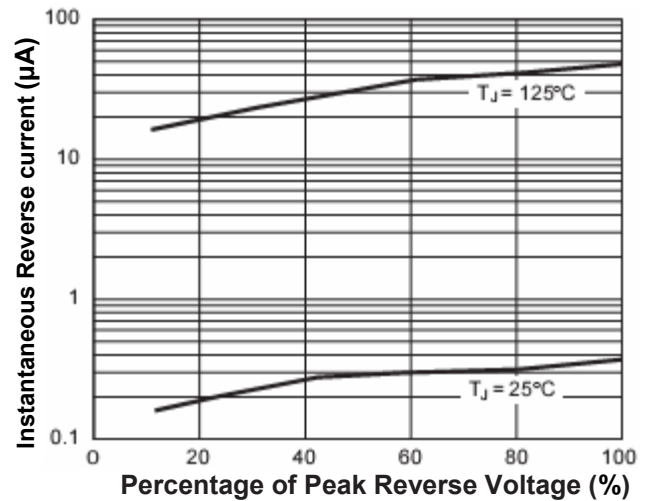


Fig.4- Typical Reverse Characteristics

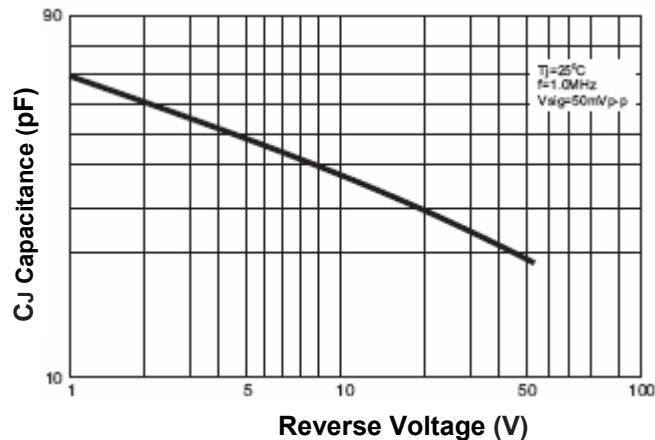
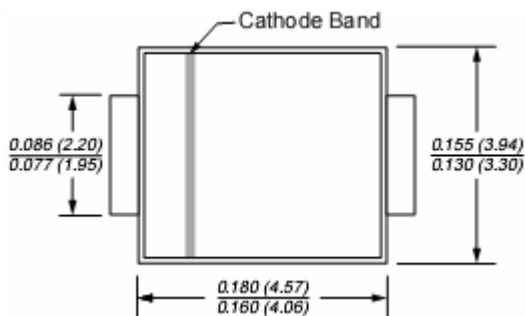
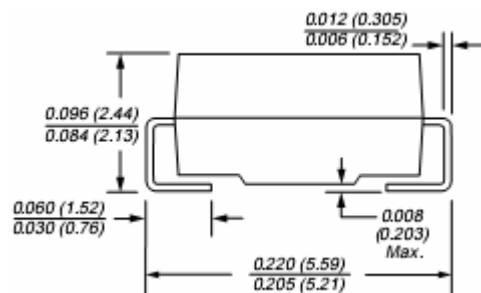


Fig.5- Junction Capacitance

Dimensions in inch (mm)



DO-214AA
(SMB)



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RS2A~RS2K

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