

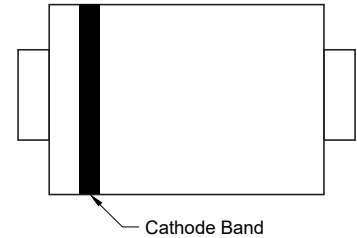
SURFACE MOUNT FAST RECOVERY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

Features

- Small size and low profile
- Solderable
- Easy to pick and place
- Fast reverse recovery time
- RoHS compliant

DO-214AA/SMB **ROHS COMPLIANT**



Equivalent circuit



Mechanical Data

Case : DO-214AA/SMB molded plastic body

Terminals :Solderable per MIL-STD-750,Method2026

Approx. Weight : 0.09grams / 0.003oz

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load,For capacitive load, derate current by 20%.

Parameter	Unit	RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB	Notes
Reverse Voltage	V _R	50	100	200	300	400	500	1000	
Forward Current	I _F	3.0							
Forward Voltage	V _F	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Reverse Current	I _R	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Reverse Recovery Time	t _{rr}	10	10	10	10	10	10	10	
Operating Junction and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150							°C

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Typical Characteristics

Fig.1 Maximum Average Forward Current Rating

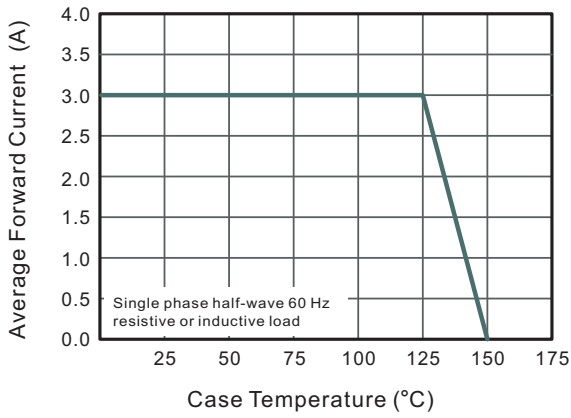


Fig.2 Typical Reverse Characteristics

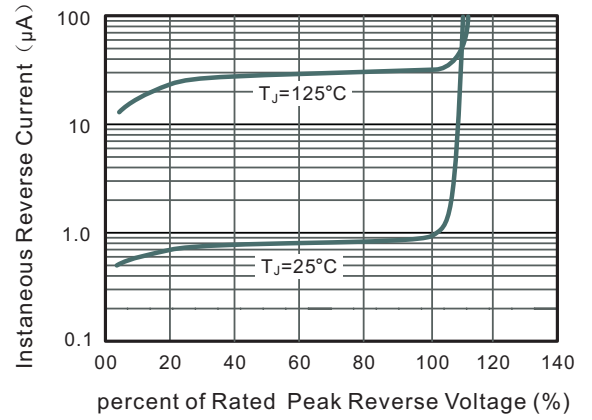


Fig.3 Typical Instantaneous Forward Characteristics

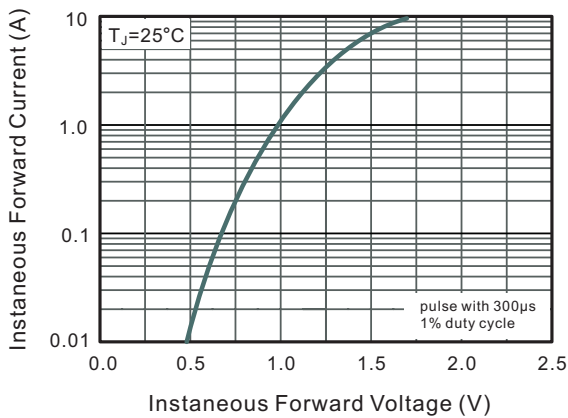


Fig.4 Typical Junction Capacitance

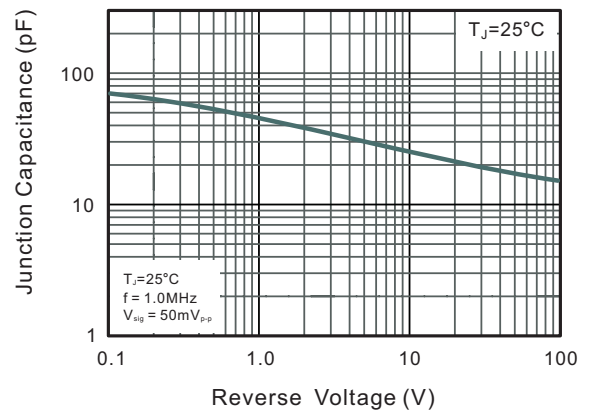
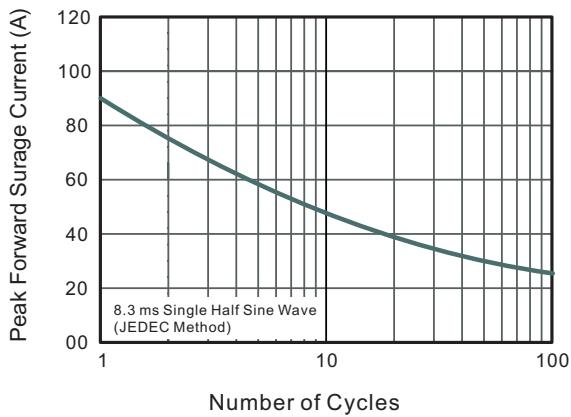
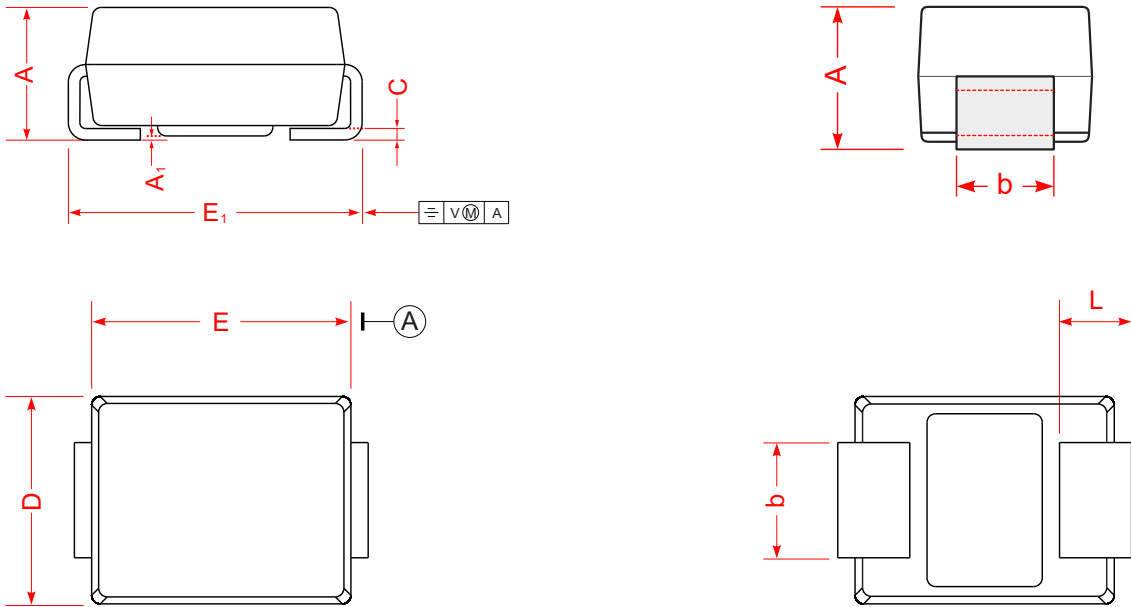


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

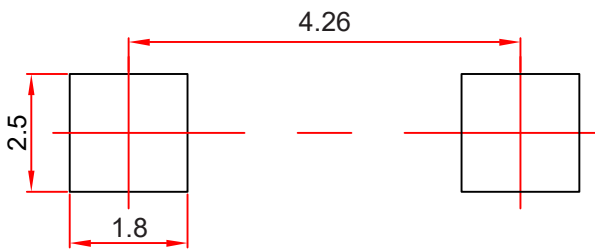


DO-214AA/SMB Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.13	2.44	0.084	0.096
C	0.15	0.31	0.006	0.012
D	3.30	3.95	0.130	0.156
E	4.06	4.70	0.160	0.185
E ₁	5.08	5.59	0.200	0.220
b	1.90	2.20	0.075	0.087
L	0.80	1.50	0.031	0.059
A ₁	0.2 REF		0.008 REF	

Suggested Pad Layout



- Note:
1. Controlling dimension: in/millimeters.
 2. General tolerance: $\pm 0.05\text{mm}$.
 3. The pad layout is for reference purposes only.