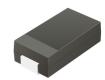


RS3AB-HF Thru. RS3MB-HF Reverse Voltage: 50 to 1000 Volts Forward Current: 3 Amp RoHS Device Halogen Free



Features

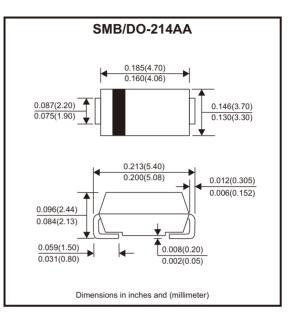
- For surface mounted applications.
- Low profile package.
- Glass passivated chip junction.
- Easy to pick and place.
- Fast reverse recovery time.

Mechanical data

- Case: SMB
- Terminals: Solderable per MIL-STD-750, method 2026.

Circuit Diagram





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 by 20%

Parameter	Symbols	RS3AB -HF	RS3BB -HF	RS3DB -HF	RS3GB -HF	RS3JB -HF	RS3KB -HF	RS3MB -HF	Units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)				3				А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM 90					А			
Max. forward voltage at 3A	VF	1.3						V	
	IR 5 100					μA			
Typical junction capacitance at V_R = 4V, f = 1MHz	Cj	40					pF		
Maximum reverse recovery time (Note 1)	trr		15	150		250 50		00	ns
Typical thermal resistance (Note 2)	Reja Rejc	48 16					°C/W		
Operating and storage temperature range	Tj, Tstg	-55 ~ +150				°C			

Notes: 1. Measured with IF = 0.5A, IR = 1A, Irr = 0.25A.

2. P.C.B. mounted with 2.0" x 2.0" (5 x 5 cm) copper pad areas.

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Rating and Characteristic Curves (RS3AB-HF Thru. RS3MB-HF)

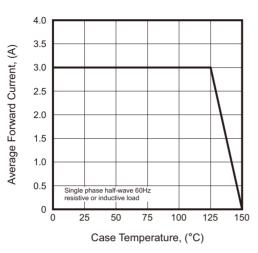


Fig.1 - Max. Average Forward Current Rating

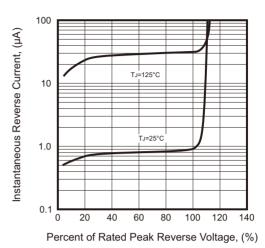
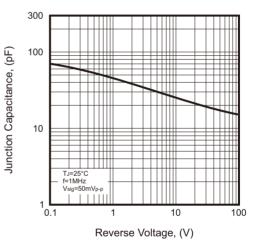


Fig.2 - Typical Reverse Characteristics







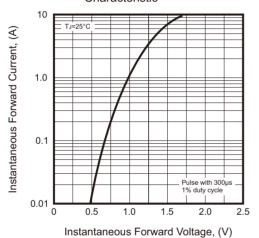


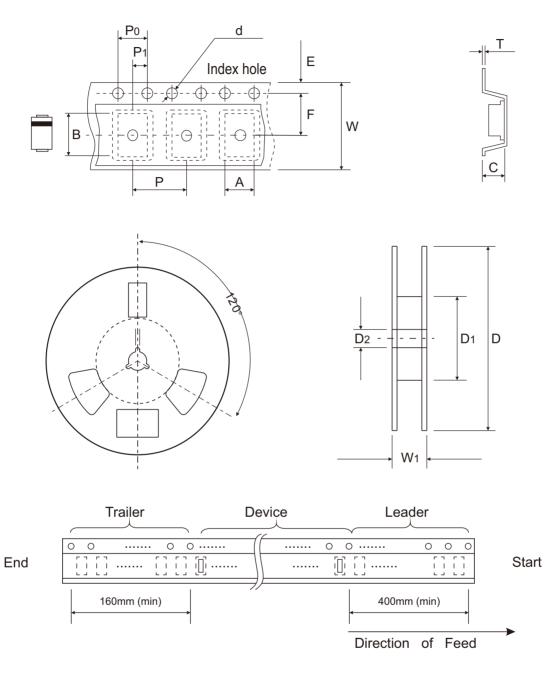
Fig.5 - Maximum Non-Repetitive Peak Forward Surge Current

Number of Cycles

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Reel Taping Specification



	SYMBOL	Α	В	С	d	D	D1	D2
DO-214AA (SMB)	(mm)	3.80 ± 0.10	5.50 + 0.05 - 0.10	2.45 ± 0.05	1.55 ± 0.05	330 ± 2.00	100 ± 1.00	13.00 ± 0.20
	(inch)	0.150 ± 0.004	0.217 + 0.002 - 0.004	0.096 ± 0.002	0.061 ± 0.002	12.992 ± 0.079	3.937 ± 0.039	0.512 ± 0.008

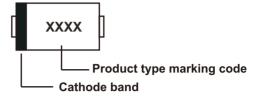
	SYMBOL	E	F	Р	P0	P 1	Т	W	W 1
DO-214AA (SMB)	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.25 ± 0.05	12.00 ± 0.15	18.00 + 2.00 - 1.00
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.010 ± 0.002	0.472 ± 0.006	0.709 + 0.079 - 0.039

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Marking Code

Part Number	Marking Code
RS3AB-HF	RS3A
RS3BB-HF	RS3B
RS3DB-HF	RS3D
RS3GB-HF	RS3G
RS3JB-HF	RS3J
RS3KB-HF	RS3K
RS3MB-HF	RS3M



xxxx = Product type marking code

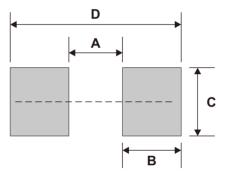
Suggested PAD Layout

SIZE	DO-214AA (SMB)			
JIZL	(mm)	(inch)		
Α	2.20	0.087		
в	2.40	0.094		
с	2.80	0.110		
D	7.00	0.276		

Note: 1. The pad layout is for reference purpose only.

Standard Packaging

	REEL PACK				
Case Type	REEL (pcs)	Reel Size (inch)			
DO-214AA (SMB)	3,000	13			



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 SCH10000
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