FEATURES

| Glass Passivated Chip Junction | Ideal For Automated Placement | Fast Switching For High Efficiency | High Surge Current Capability





Schematic Symbol

APPLICATIONS

Switching Mode Power Supply (SMPS)				
Adapters				
Lighting Application				
Converter				

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

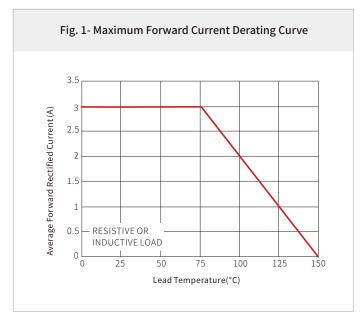
MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

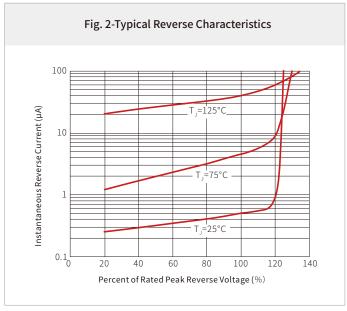
Parameter		Symbol	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	Unit
Marking			RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	
Maximum Repetitive Peak Reverse Volta	ge	$V_{_{\mathrm{RRM}}}$	50	100	200	400	600	800	1000	
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current		I _{F(AV)}	3						۸	
Surge Peak Forward Current,8.3ms Single Half Sine-Wave Superimposed On Rated Load Per Diode		I _{FSM}	100					A		
Forward Voltage Per Diode I _F =3a,T _j =25°C ⁽¹⁾		V _F	1.3					V		
Reverse Current @ Rated V _R	T _J =25°C					10				^
Per Diode ⁽²⁾	T _J =125°C	l _R	250						μΑ	
Reverse Recovery Time $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$		T _{rr}		1	50		250	5	00	ns
Junction-to-Lead Thermal Resistance Per Diode		$R_{\theta JL}$	15				°C/W			
Junction-to-Ambient Thermal Resistance Per Diode		$R_{\theta JA}$	50					°C/W		
Operating Junction And Storage Temperature Range		T_{J},T_{STG}	-55 to +150					°C		

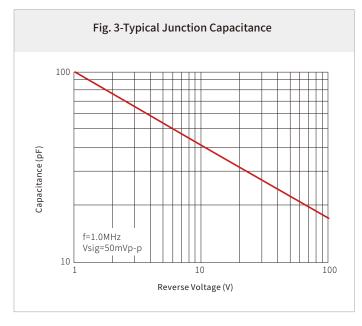
- 1.Pulse test with PW=0.3 ms
- 2.Pulse test with PW=30 ms

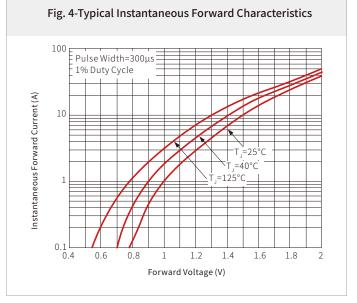


CHARACTERISTIC CURVES

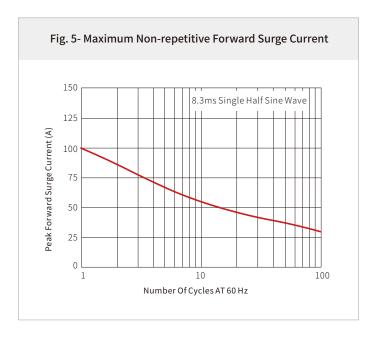


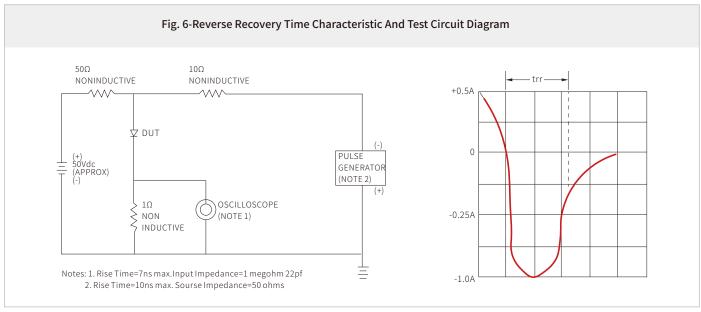








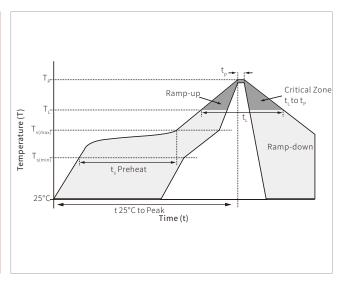




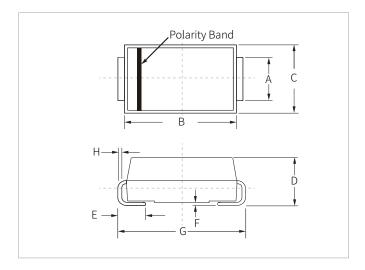


SOLDERING PARAMETERS

	Lead-free assembly			
	Temperature Max (T _{s(min)})	150°C		
Pre Heat	Temperature Max (T _{s(max)})	200°C		
	Time (min to max) (t_s)	60 – 180 secs		
Average ran	Average ramp up rate (Liquidus Temp (T_L) to peak			
	3°C/second max			
Reflow	Temperature (T _L) (Liquidus)	217°C		
Renow	Time (min to max) (t _L)	60 – 150 seconds		
Peak Temp	erature (T _P)	260°C		
Time within	Time within 5°C of actual peak Temperature (t _p)			
Ramp-dow	n Rate	6°C/second max		
Time 25°C t	to peak Temperature (T _P)	8 minutes max.		
Do not exce	260°C			



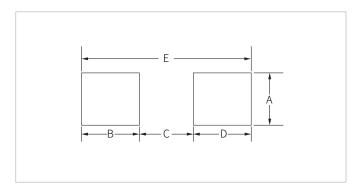
DO-214AB(SMC) PACKAGE INFORMATION



Ref.	MIILLIII	ieters	inches		
NCI.	Min.	Max.	Min.	Max.	
А	2.80	3.20	0.110	0.126	
В	6.60	7.20	0.260	0.283	
С	5.70	6.10	0.224	0.240	
D	2.15	2.75	0.085	0.108	
Е	1.00	1.60	0.039	0.063	
F	0.02	0.20	0.000	0.008	
G	7.60	8.00	0.299	0.315	
Н	0.15	0.30	0.006	0.012	



RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millim	neters	Inches		
itei.	Min.	Max.	Min.	Max.	
А	3.30	-	0.129	-	
В	2.40	-	0.094	-	
С	-	4.20	-	0.165	
D	2.40	-	0.094	-	
Е	8.20	REF	0.323REF		

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
RS3A -RS3M	DO-214AB(SMC)	3000PCS	13"



Headquarters

No.3387 Shendu Road Pujiang I&E Park Minhang Shanghai China 201000

Hotline

400-021-5756

Web

Https://www.semiware.com

Sales Center

Tel: 86-21-3463-7458 Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001

Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654

Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172

Ext: 8868

Email: cs03@semiware.com

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