

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)

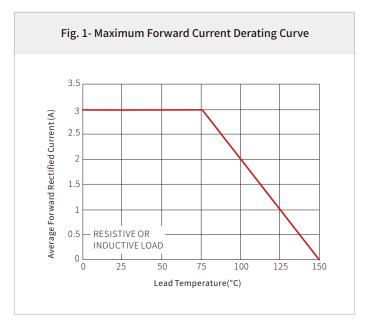
Parameter		Symbol	RS3AC	RS3BC	RS3DC	RS3GC	RS3JC	RS3KC	RS3MC	Unit
Marking			RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	
Maximum Repetitive Peak Reverse Volta	ge	V_{RRM}	50	100	200	400	600	800	1000	
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current		I _{F(AV)}	3							Δ.
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 _p	T _J =25°C		10					μА		
Per Diode ⁽²⁾	T _J =125°C	I _R	250							
Reverse Recovery Time I _F =0.5A , I _R =1.0A,I _{RR} =0.25A		T _{rr}	150 250 500		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	

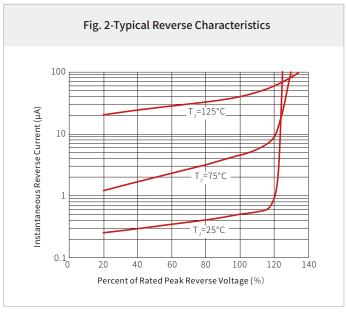
Note

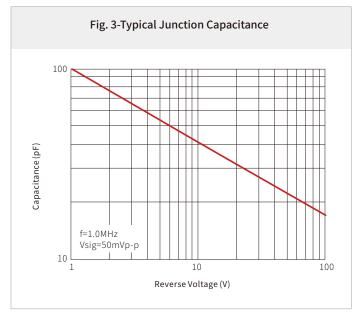
- 1.Pulse test with PW=0.3 ms
- 2.Pulse test with PW=30 ms

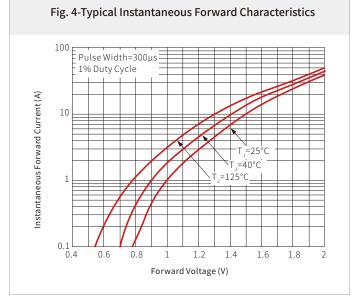


CHARACTERISTIC CURVES

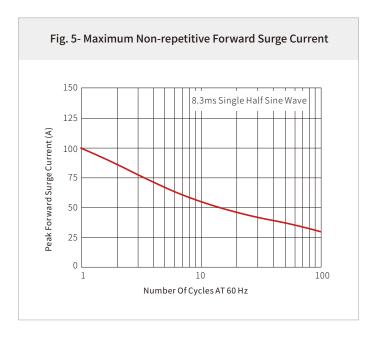


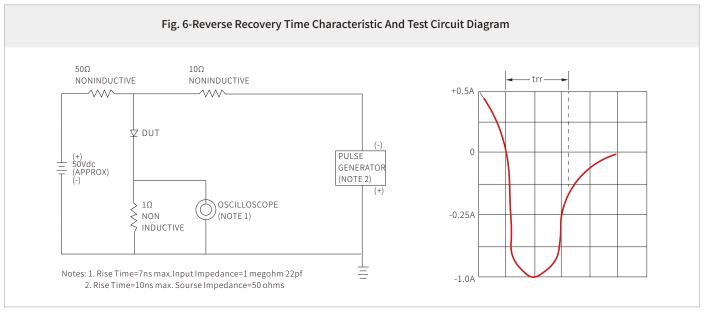








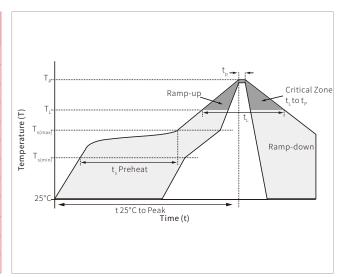




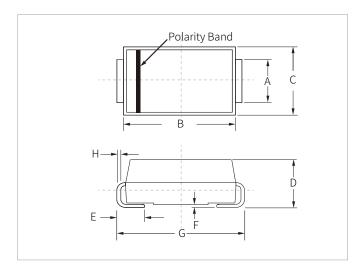


SOLDERING PARAMETERS

	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	260°C			
Time within	20 – 40 seconds			
Ramp-dow	6°C/second max			
Time 25°C t	8 minutes max.			
Do not exce	260°C			



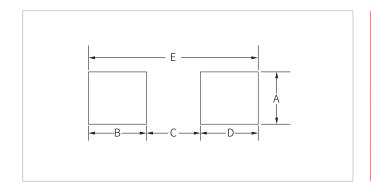
DO-214AB(SMC) PACKAGE INFORMATION



Ref.	MILLIII	ieters	inches			
KCI.	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.	Millin	neters	Inches		
KCI.	Min.	Max.	Min.	Max.	
А	3.30	-	0.129	-	
В	2.40	-	0.094	-	
С	-	4.20	-	0.165	
D	2.40	-	0.094	-	
E	8.20	REF	0.32	3REF	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
RS3AC -RS3MC	DO-214AB(SMC)	3000PCS	13"



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