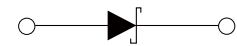


FEATURES

- High current capability
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters free wheeling, and porlarlity protection applications



DO-201



Schematic Symbol

MECHANICAL DATA

- Case: DO-201 Molded plastic
- Polarity: Color band denotes cathode
- Mounting Position: Any

APPROVALS

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

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter		Symbol	SR320	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	Unit
Marking			SR320	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	40	50	60	80	100	150	200	V
Maximum RMS Voltage		V _{RMS}	14	28	35	42	56	70	105	140	
Maximum DC Blocking Voltage		V _{DC}	20	40	50	60	80	100	150	200	
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length		I _(AV)	3.0								A
Non-repetitive peak forward surge current 8.3 ms single half sine-wave		I _{FSM}	80								
Maximum Forward Voltage at 3.0A DC and 25 C		V _F	0.55		0.70		0.85		0.95		V
Peak Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	0.5								mA
	T _A =100°C		30								
Typical Junction Capacitance (Note 1)		C _J	300		250						pF
Typical Thermal Resistance (Note 2)		R _{θJA}	40								°C/W
Operating Junction Temperature Range		T _J	-55 ~ +125		-55 ~ +150						°C
Storage Temperature Range		T _{STG}	-55~+150								

NOTE :

1.Measured at 1 MH and applied reverse voltage of 4.0 VDC. Z

2.Thermal Resistance From Junction to Ambient 0.375" (9.5mm) lead length P.C.B. Mounted

CHARACTERISTIC CURVES

Fig.1 Typical Forward Current Derating Curve

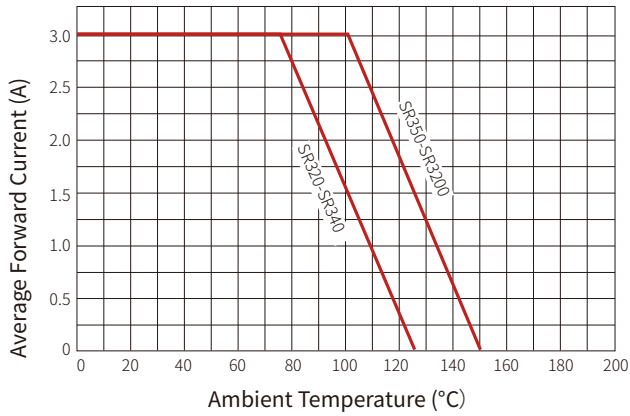


Fig.2 Typical Forward Characteristics

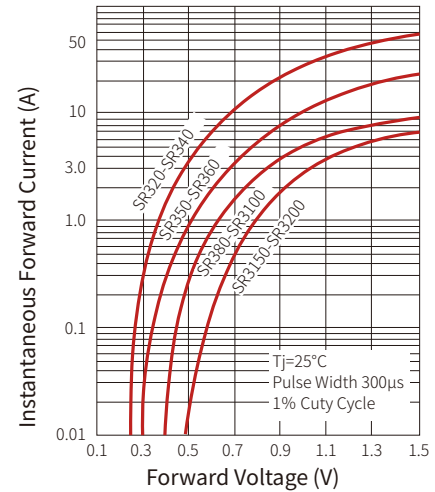


Fig.3 Maximum Non-Repetitive Forward Surge Current

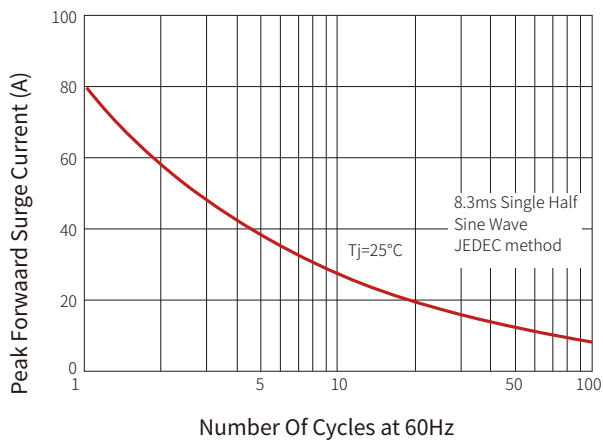


Fig.4 Typical Junction Capacitance

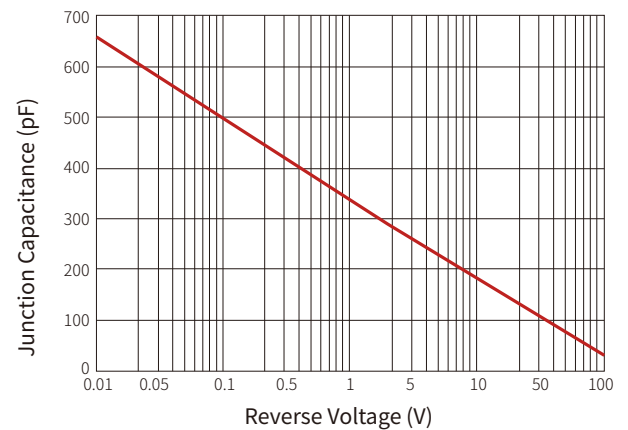
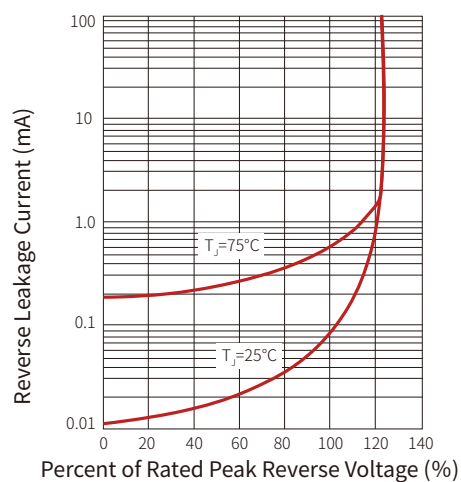
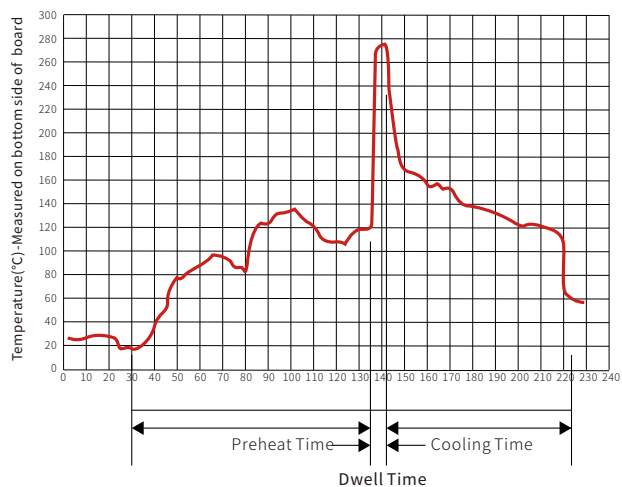


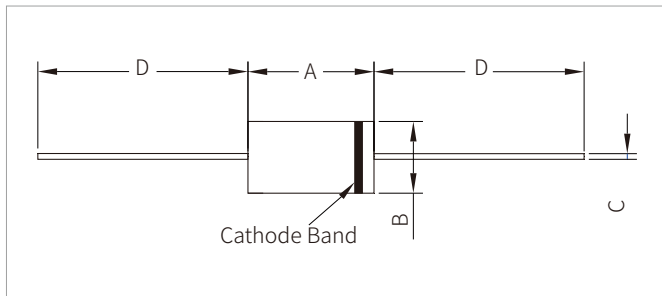
Fig.5 Typical Reverse Characteristics


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

DO-201 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	8.50	9.50	0.335	0.375
B	4.80	5.60	0.189	0.220
C	1.10	1.45	0.043	0.057
D	24.00	-	0.945	-

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
SR320-SR3200	DO-201	1250pcs	Reel

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By QR Code

Website



Wechat

To find your local partner within Semiware's global website: www.semiware.com

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