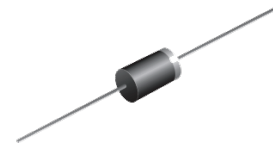


FEATURES

- The Plastic Package Carries Underwriters Laboratory Flammability Classification 94V-0
- Guardring For Overvoltage Protection
- Low Reverse Leakage
- High Forward Surge Current Capability



DO-201



Schematic Symbol

APPLICATIONS

- Case : Molded Plastic Body
- Polarity : Polarity Symbol Marking On Body
- Mounting Position : Any

APPROVALS

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

ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Parameter		Symbol	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	Unit
Marking			SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	
Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	150	200	V
Reverse Voltage,total RMS Value		V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current		I _{F(AV)} ¹⁾	5.0									A
Non-Repetitive Peak Forward Surge Current 8.3 ms Singlehalf Sine-wave		I _{FSM}	150									A
Maximum Forward Voltage @I _F =5.0A		V _F	0.55			0.70		0.85		0.90	0.95	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	0.5					0.05			mA	
	T _A =100°C		20					10			mA	
Typical Thermal Resistance Note 1		R _{θJA}	25									°C/W
		R _{θJL}	8									°C/W
Type Junction Capacitance V _R =4.0v,f=1MHz		C _J	500					400				pF
Operating Junction Temperature Range		T _J	-55 to +125					-55 to +150				°C
Storage Temperature Range		T _{STG}	-55 to +150									°C

Note1): Thermal resistance from junction to ambient, PCB mounted

CHARACTERISTIC CURVES

Fig. 1- Typical Forward Characteristic

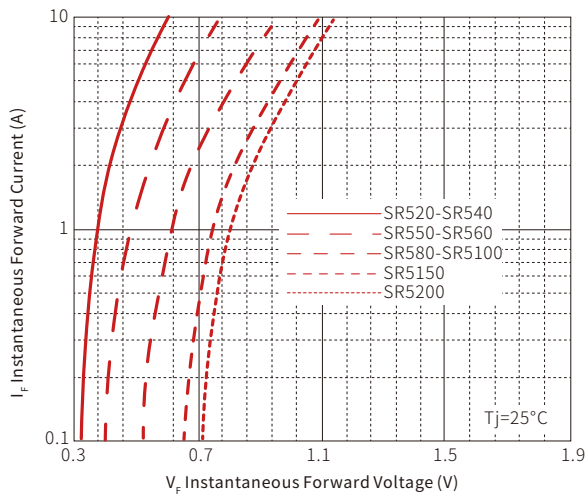


Fig. 2-Forward Current Derating Curve

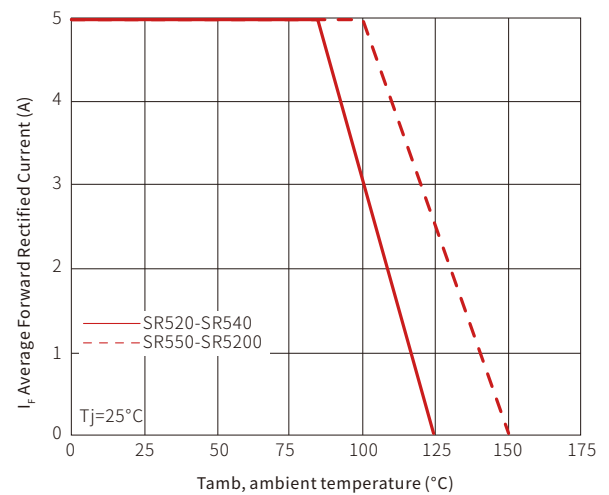


Fig. 3-Maximum Non Repetitive Peak Forward Surge Current

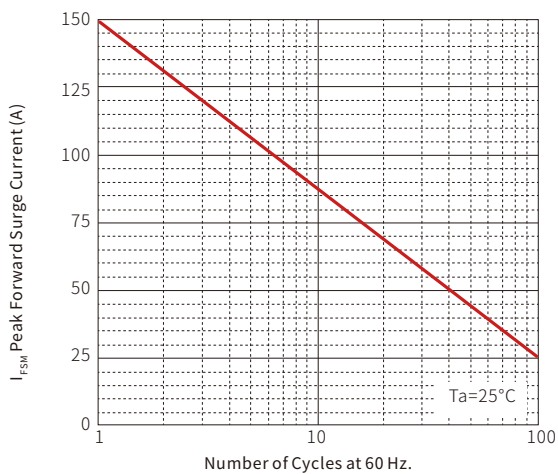
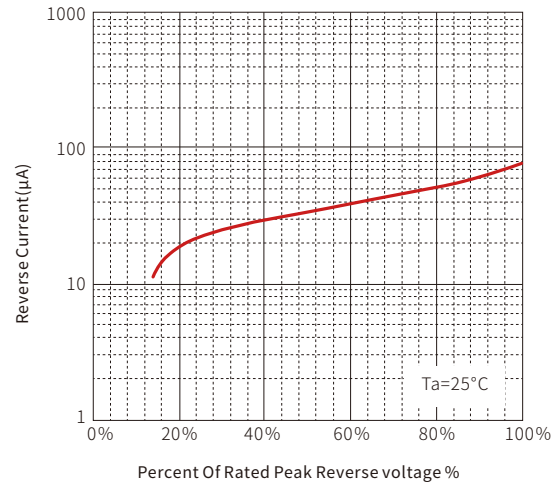
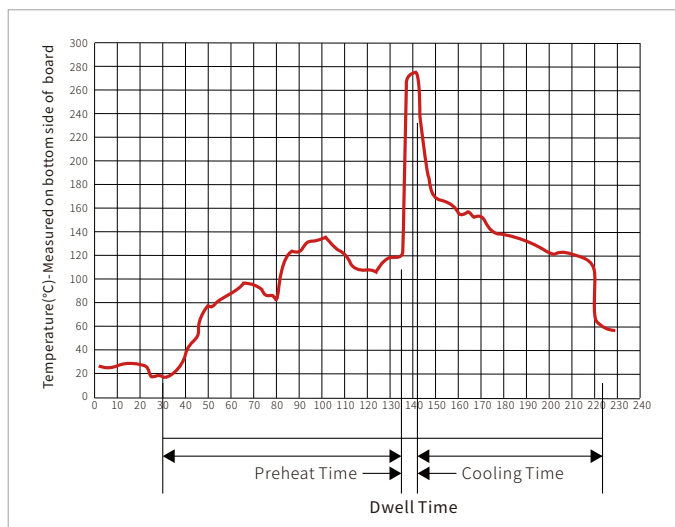


Fig. 4-Typical Reverse Characteristics

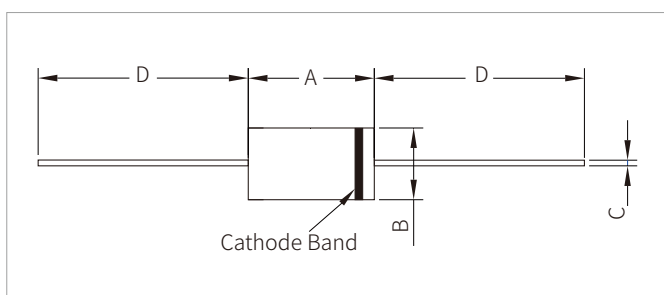


WAVE SOLDERING



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
SR520-SR5200	DO-201	1250pcs	Reel

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By QR Code

Website



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