

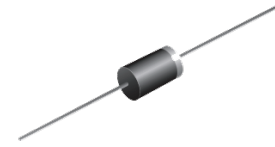
FEATURES

- | The plastic package carries Underwriters Laboratory
Flammability Classification 94V-0

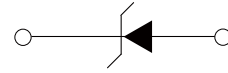
- | Guardring for overvoltage protection

- | 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°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	0.5					0.05					mA
	T _A =100°C	20					10					mA
Typical thermal resistance Note 1	R _{θJA}	25									°C/W	
	R _{θJI}	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

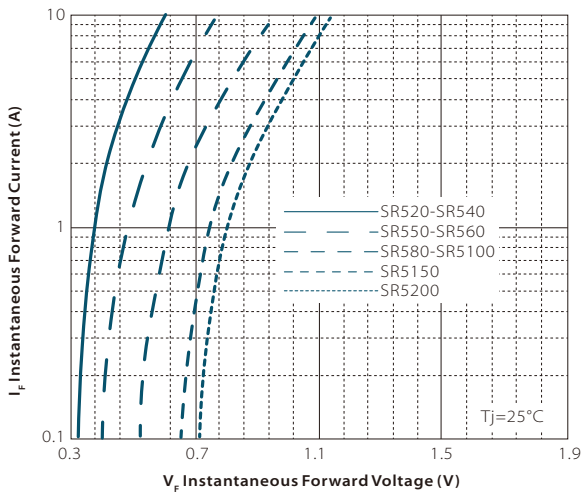


Fig. 2-Forward Current Derating Curve

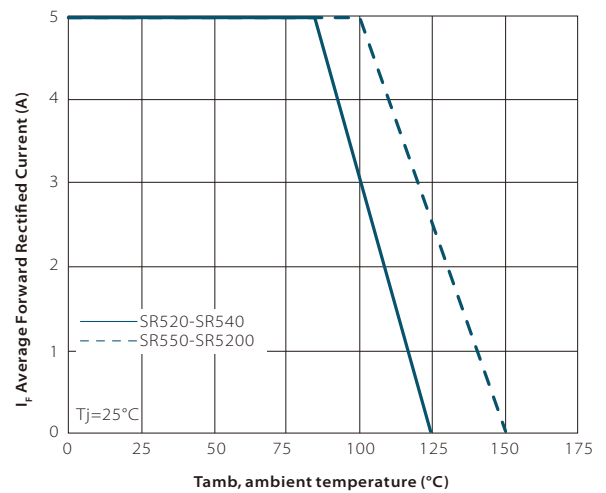


Fig. 3-Maximum Non Repetitive Peak Forward Surge Current

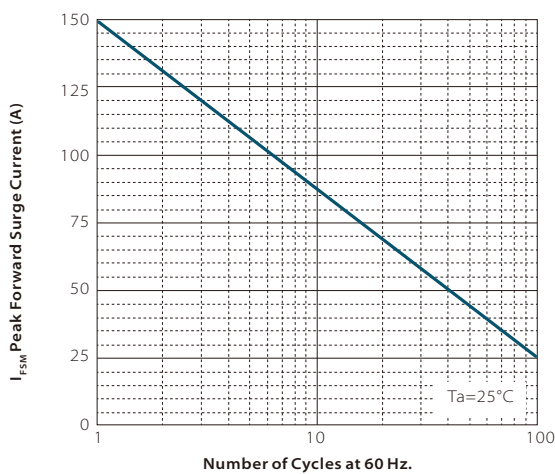
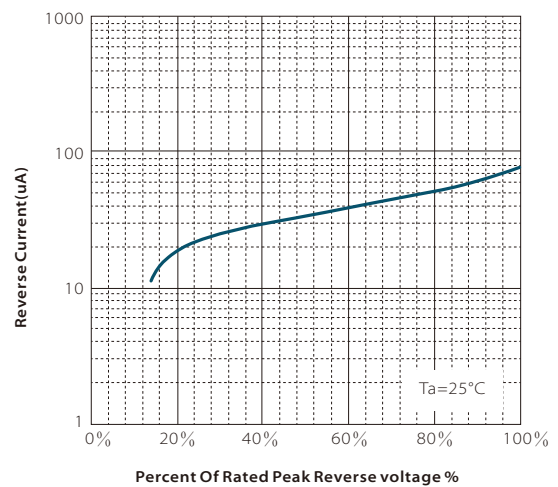
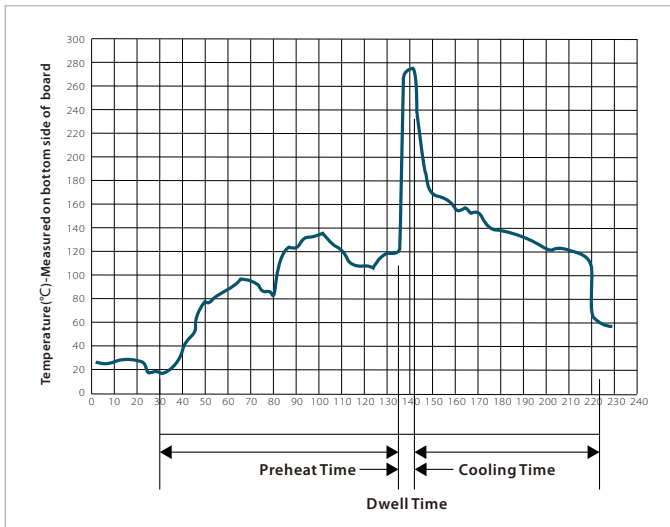


Fig. 4-Typical Reverse Characteristics

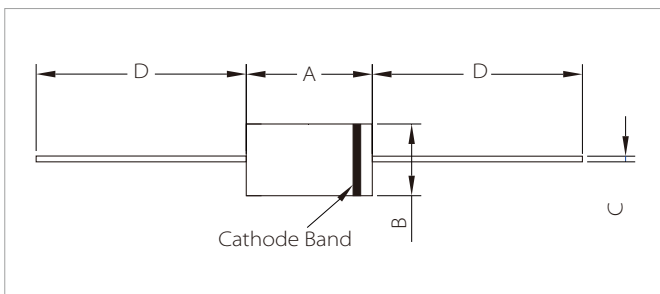


WAVE SOLDERING



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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