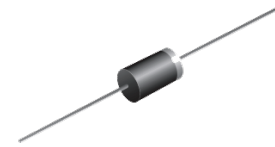


FEATURES

- | 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

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

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	$V_{R(RMS)}$	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5.0	A
Non-repetitive Peak Forward Surge Current 8.3ms Singlehalf Sine-Wave	I_{FSM}	125	A
Maximum Forward Voltage @ $I_F=5.0A$	V_F	0.65	V
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	54	$^{\circ}\text{C}/\text{W}$
Maximum Reverse Current @ V_{DC}	I_R	0.1	mA
		10	mA
Type Junction Capacitance $V_R=4.0V, f=1\text{MHz}$	C_J	320	pF
Operating Junction Temperature	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Note:1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

CHARACTERISTIC CURVES

Fig. 1- Typical Forward Characteristic

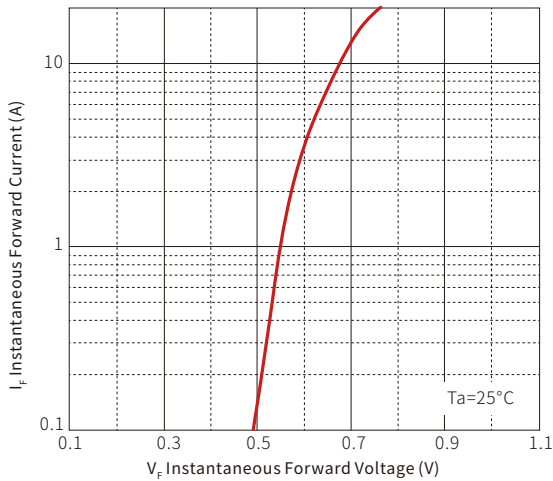


Fig. 2-Forward Current Derating Curve

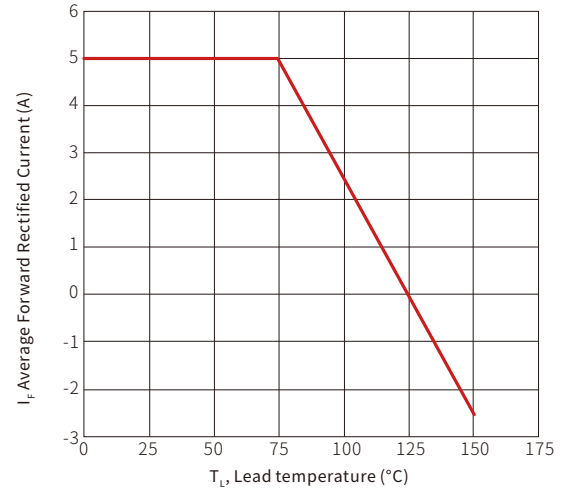


Fig. 3-Maximum Non Repetitive Peak Forward Surge Current

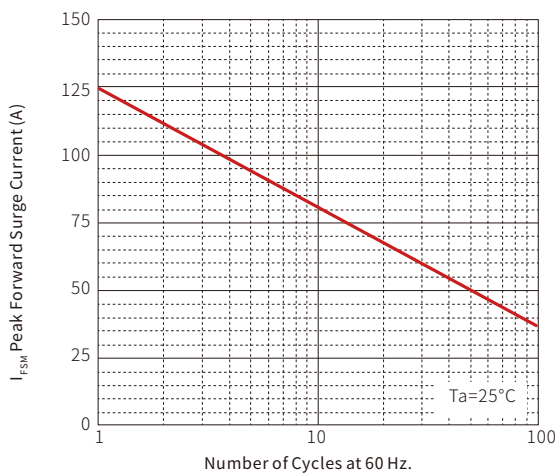
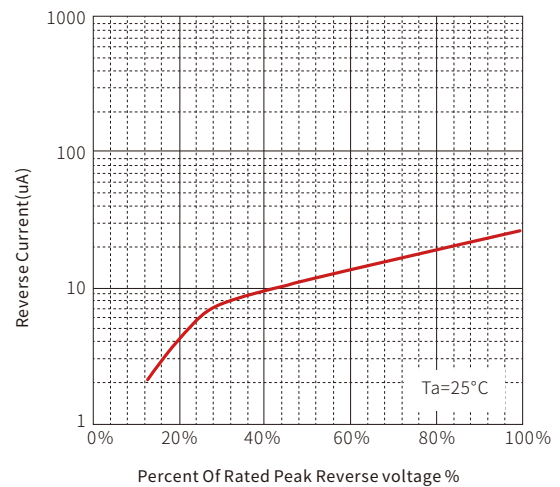
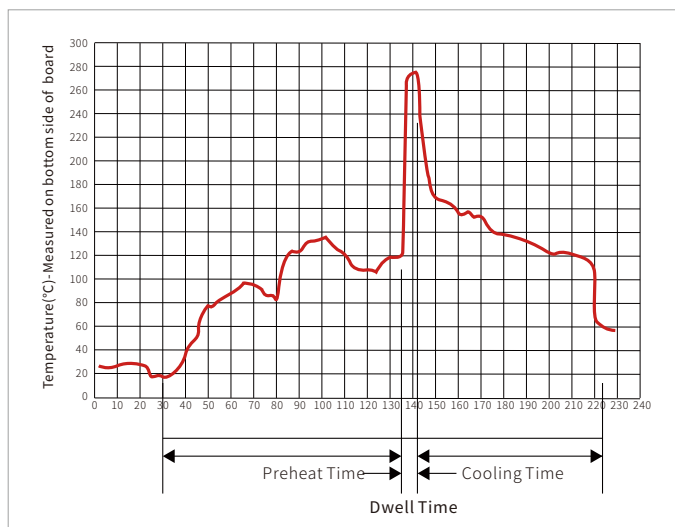


Fig. 4-Typical Reverse Characteristics

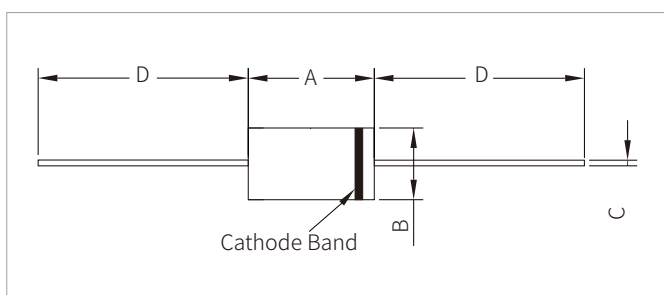


WAVE SOLDERING



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	Marking	Component Package	Per Carton	Description
TSR5100L	TSR5100L	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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