

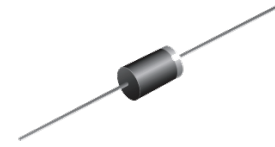
FEATURES

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

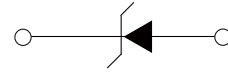
- | Guardring for overvoltage protection

- | 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°C)

Parameter	Symbol	Value	Unit	
Maximum repetitive peak reverse voltage	V _{RRM}	40	V	
Maximum RMS voltage	V _{R(RMS)}	28	V	
Maximum DC blocking voltage	V _{DC}	40	V	
Maximum average forward rectified current	I _{F(AV)}	5.0	A	
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	125	A	
Maximum forward voltage @I _F =5.0A	V _F	0.45	V	
Typical thermal resistance (Note 1)	R _{θJA}	54	°C/W	
Maximum reverse current @V _{DC}	I _R	T _A =25°C	0.1	mA
		T _A =100°C	20	mA
Type junction capacitance V _R =4.0V,f=1MHz	C _J	320	pF	
Operating junction temperature	T _J	-55 to +125	°C	
Storage temperature range	T _{STG}	-55 to +150	°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

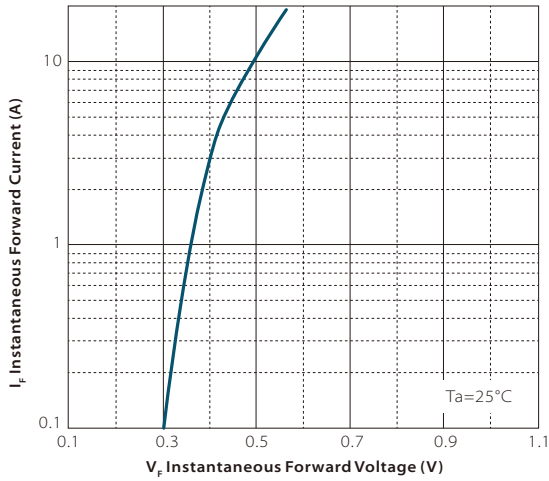


Fig. 2-Forward Current Derating Curve

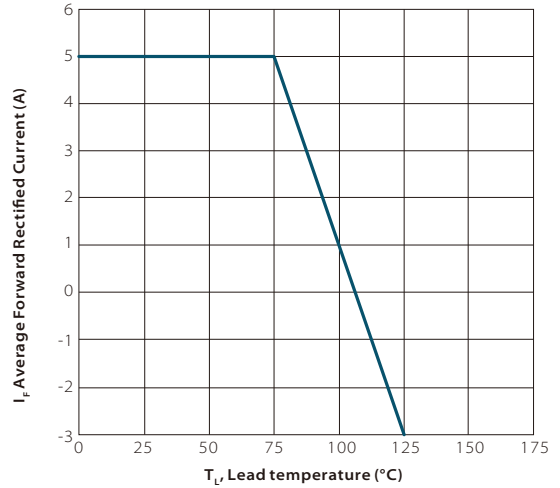


Fig. 3-Maximum Non Repetitive Peak Forward Surge Current

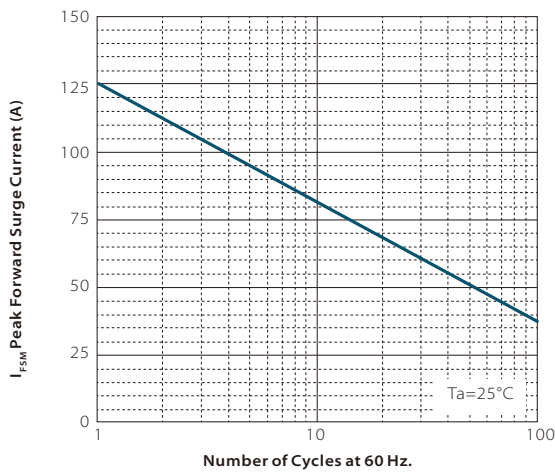
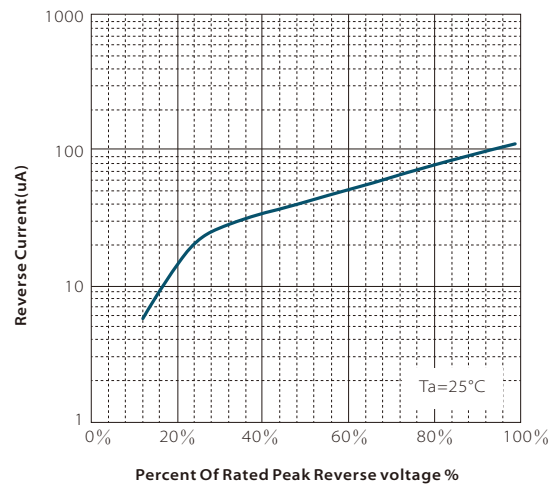
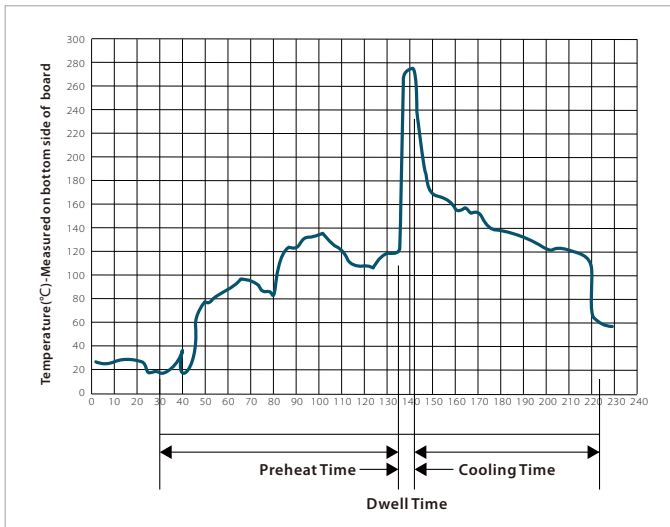


Fig. 4-Typical Reverse Characteristics

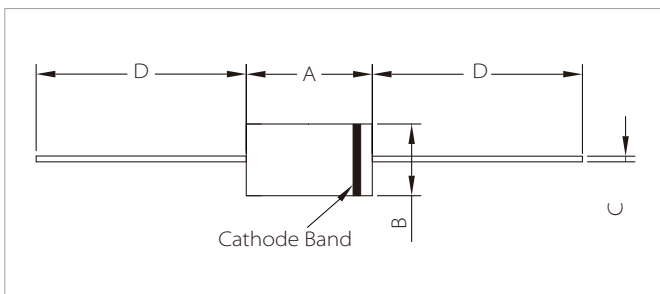


WAVE SOLDERING



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
TSR540L	TSR540L	DO-201	1250pcs	Reel

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