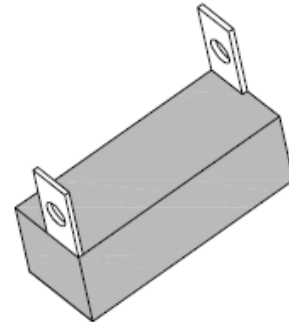


0.35A High Voltage Rectifier Assembly

Features

- Controlled avalanche characteristic combined with the ability to dissipate reverse power
- Low forward voltage drop
- Typical reverse current less than 1µA
- High overload surge capability
- High temperature soldering guaranteed:260°C/10 seconds, at terminals
- RoHS Compliance



THV3



Mechanical Data

Case:	Reliable low cost construction utilizing molded plastic technique
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solderable per MIL-STD-202, Method 208
Polarity:	Color band denotes cathode end
Weight:	20 grams

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}C$ unless noted otherwise)

Symbol	Description	THV308	THV310	THV312	THV314	THV315	THV316	Unit	Conditions
VRRM	Maximum Recurrent Peak Reverse Voltage	8000	10000	12000	14000	15000	16000	V	
VRMS	Maximum RMS Voltage	5600	7000	8400	9800	10500	11200	V	
VDC	Maximum DC Blocking Voltage	8000	10000	12000	14000	15000	16000	V	
IF(AV)	Maximum Average Forward Rectified Current	350						mA	TA=55° C
IFSM	Peak Forward Surge Current	30						A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

0.35A High Voltage Rectifier Assembly

THV308 - THV316

Symbol	Description	THV308	THV310	THV312	THV314	THV315	THV316	Unit	Conditions	
V_F	Maximum Instantaneous Forward Voltage	10.0		12.0	15.0			V	I _F =350mA	
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	
T_J	Operating Temperature Range	-40 to +130							°C	
T_{STG}	Storage Temperature Range	-40 to +130							°C	

Note: Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

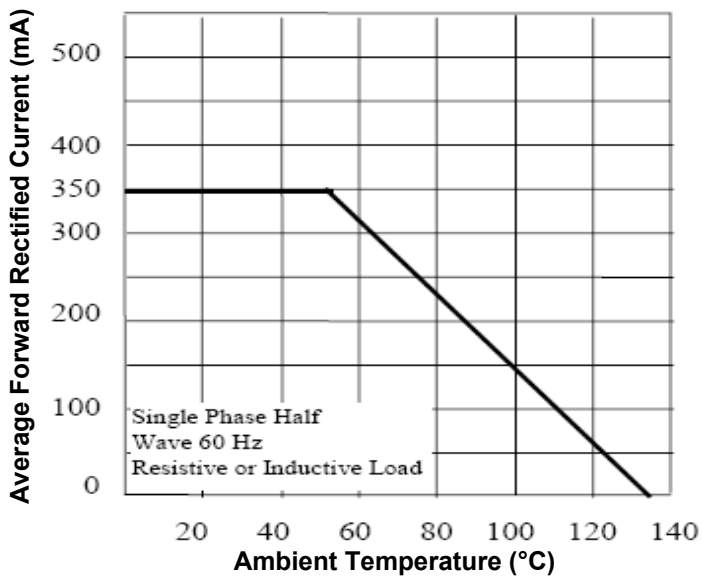
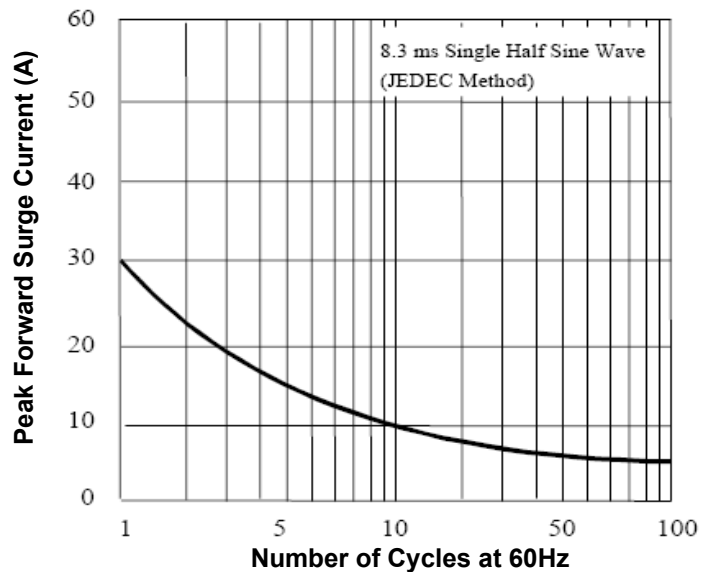


Fig.2-Max. Non-Repetitive Peak Forward Surge Rating



0.35A High Voltage Rectifier Assembly

THV308 - THV316

Fig.3- Typical Instantaneous Forward Characteristics

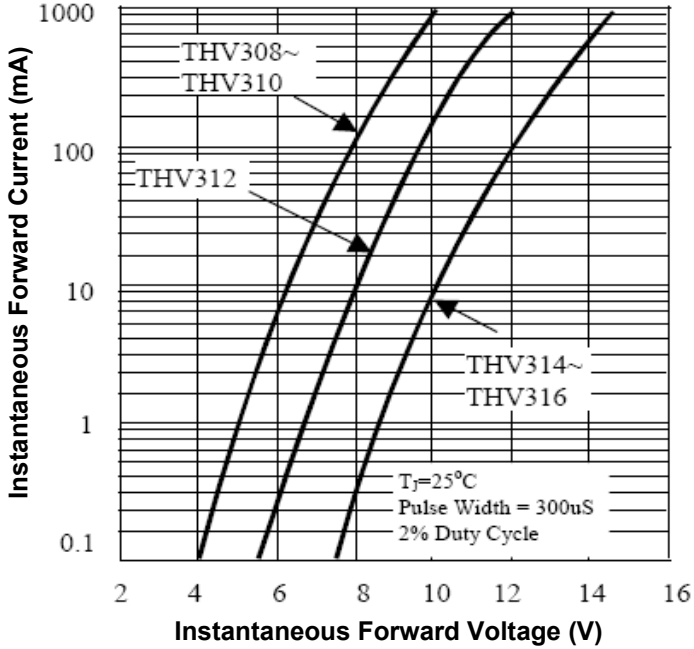
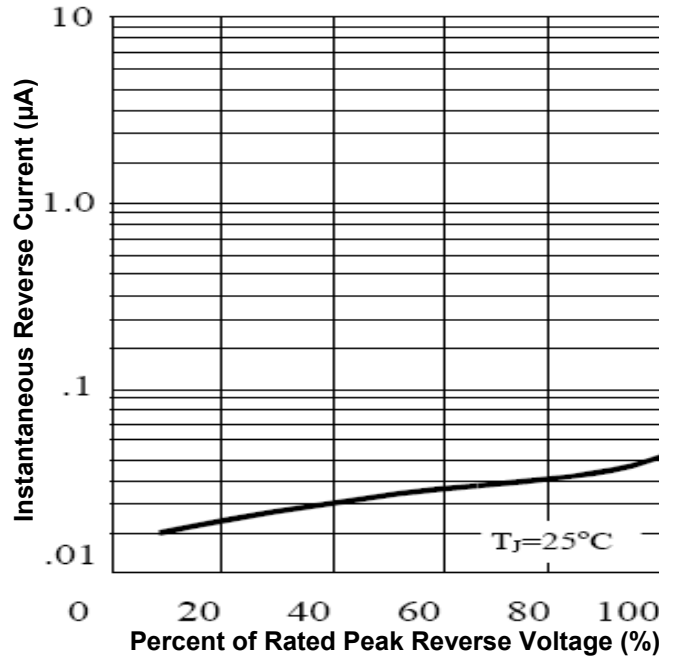
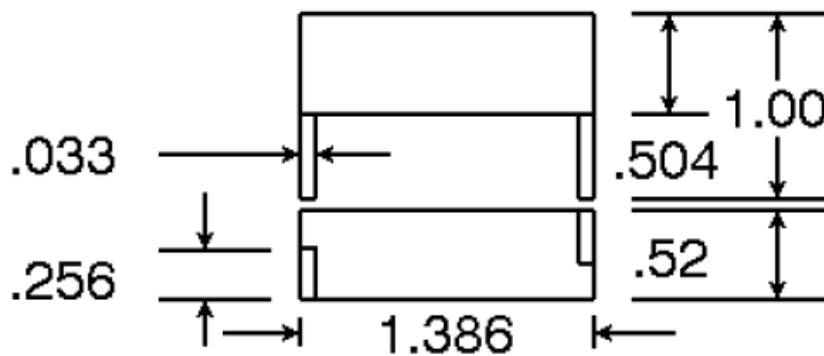


Fig.4-Typical Reverse Characteristics



Dimensions in inches



THV3

0.35A High Voltage Rectifier Assembly

THV308 - THV316

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