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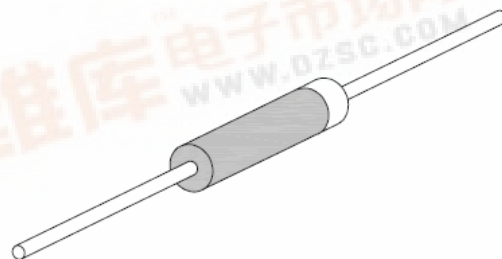
0.55A High Voltage Rectifier Assembly

THV508 - THV516

0.55A 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, /0.375" (9.5mm) lead length at 5lbs. (2.3kg) tension
- RoHS Compliance



THV5



Mechanical Data

Case:	Reliable low cost construction utilizing molded plastic technique
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Color band denotes cathode end
Weight:	2.8 grams

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

Symbol	Description	THV508	THV509	THV510	THV512	THV514	THV515	THV516	Unit	Conditions
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	8000	9000	10000	12000	14000	15000	16000	V	
V_{RMS}	Maximum RMS Voltage	5600	6300	7000	8400	9800	10500	11200	V	
V_{DC}	Maximum DC Blocking Voltage	8000	9000	10000	12000	14000	15000	16000	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	550							mA	$T_A=55^\circ\text{C}$
I_{FSM}	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

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Symbol	Description	THV508	THV509	THV510	THV512	THV514	THV515	THV516	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	10.0		12.0		15.0			V	I _F =550mA
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	
T _J	Operating Temperature Range	-40 to +125							° 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

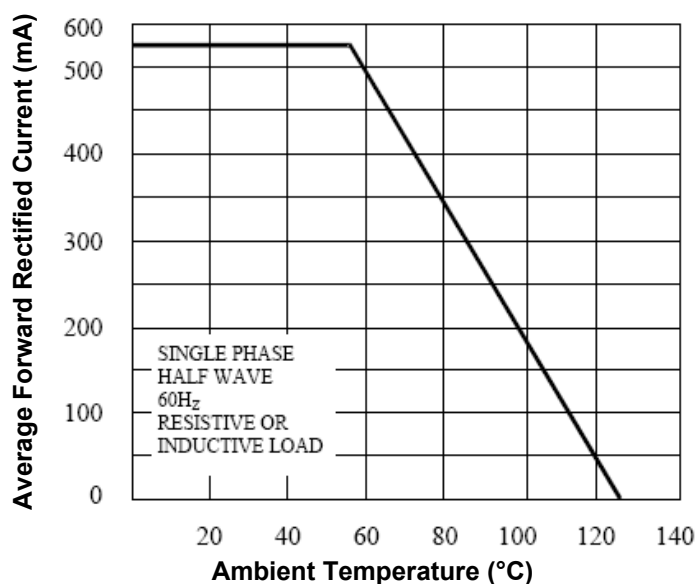
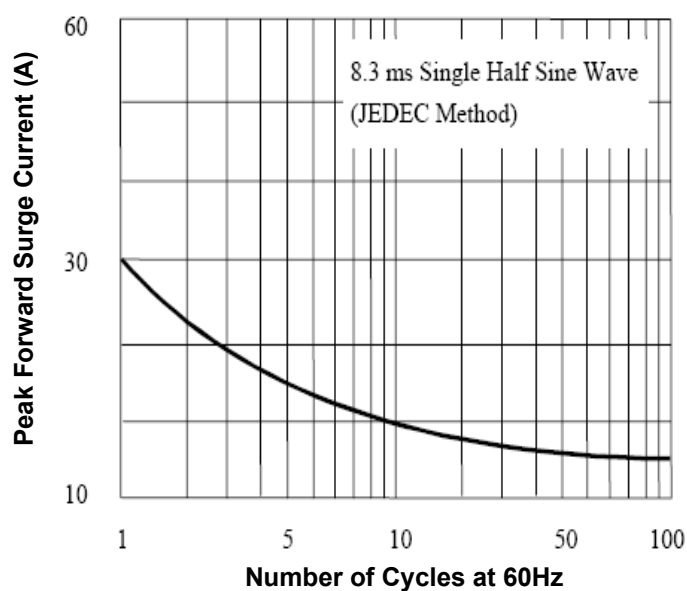


Fig.2-Max. Non-Repetitive Peak Forward Surge Rating



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Fig.3-Typical Reverse Characteristics

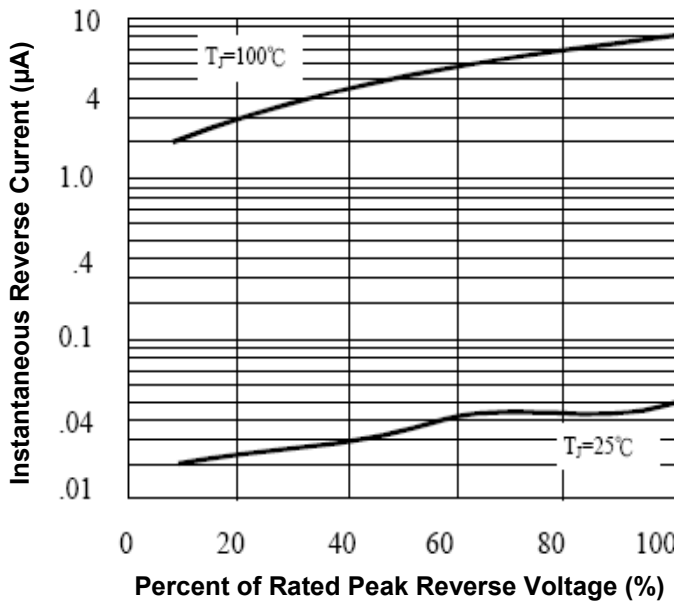
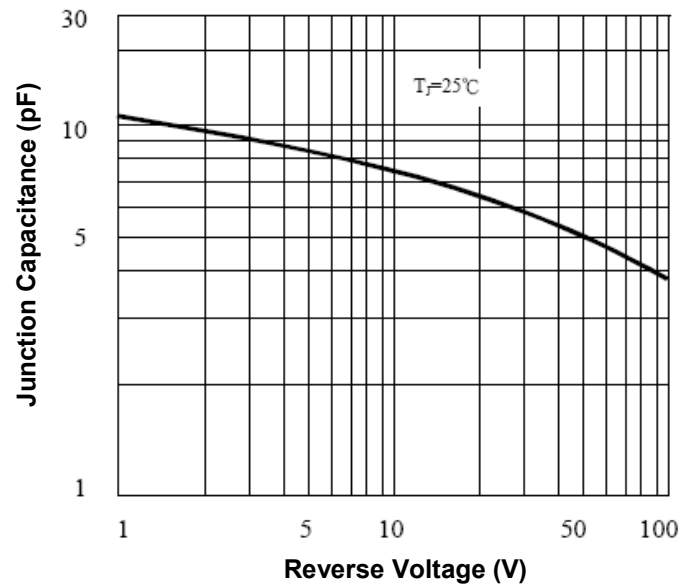
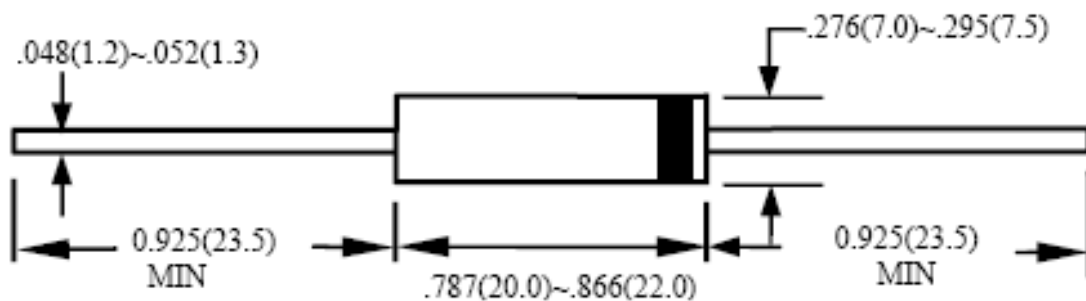


Fig.4- Typical Junction Capacitance



Dimensions in inches (mm)



THV5

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