

Features

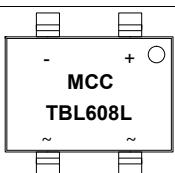
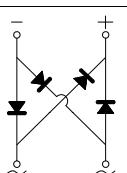
- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Forward Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

6 Amp Low VF Bridge Rectifier 800 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

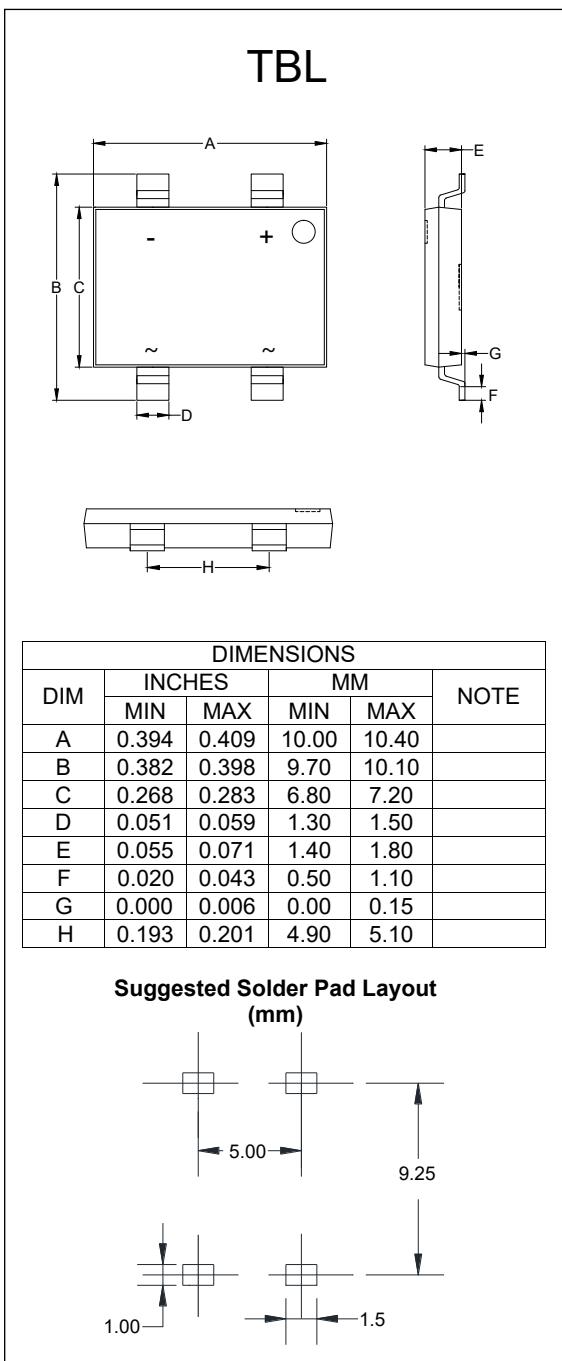
Parameter	Symbol	Value	Unit
		TBL608L	
Peak Repetitive Reverse Voltage	V _{RRM}		V
Working Peak Reverse Voltage	V _{RWM}	800	
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	560	V
Average Rectified Forward Current @ T _C =110°C	I _{F(AV)}	6	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	200	A
Non-Repetitive Peak Surge Current @ 1ms Square Wave		400	
Current Squared Time @1ms≤t≤8.3ms	I ² t	166	A ² s

Internal Structure

Simplified Outline	Graphic Symbol
	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
R _{th(J-L)}	Thermal Resistance from Junction to Case	Note 1		5		°C/W
R _{th(J-A)}	Thermal Resistance from Junction to Lead	Note 1		10		°C/W
R _{th(J-A)}	Thermal Resistance from Junction to Ambient	Note 1		55		°C/W

Note:

1.Device mounted on P.C.B with 35mm*25mm*1.7mm.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =3A;T _J =25°C		0.875	0.92	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	µA
Junction Capacitance	C _J	V _R =4V;f=1MHz;T _J =25°C		55		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

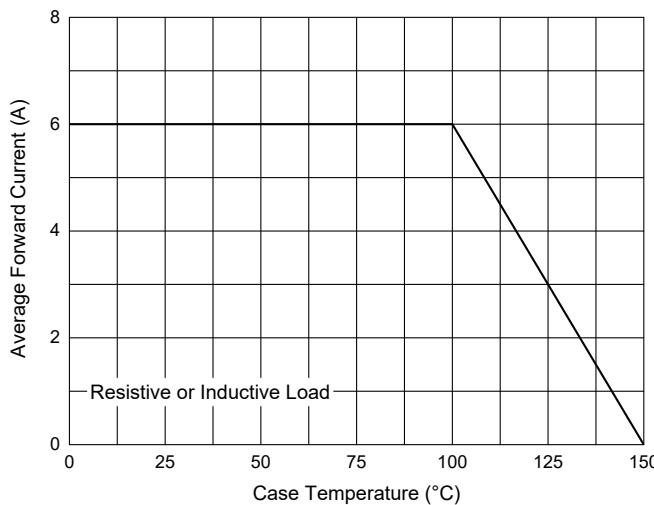


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

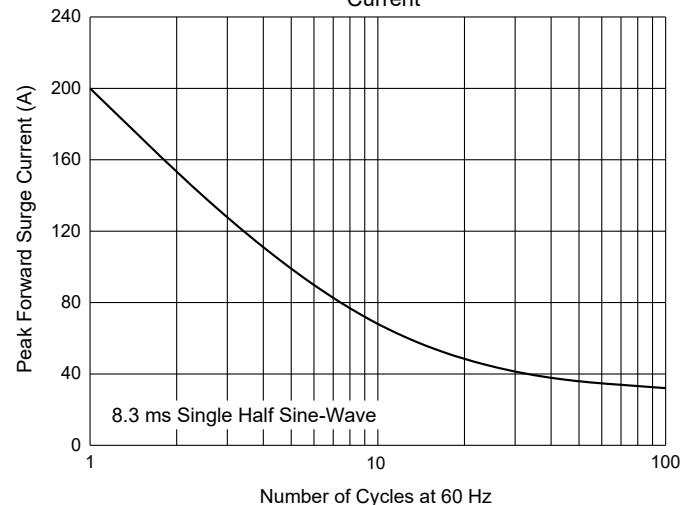


Fig. 3 - Typical Forward Characteristics

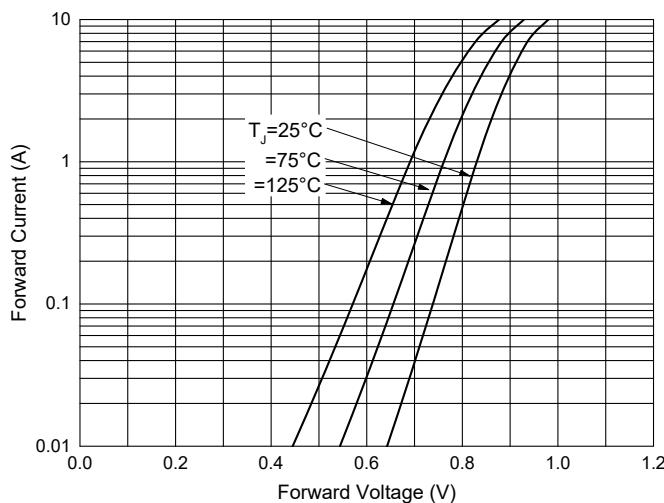


Fig. 4 - Typical Reverse Leakage Characteristics

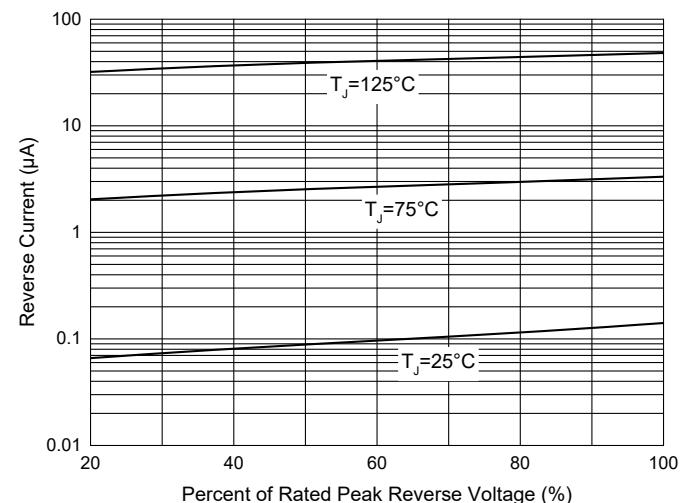
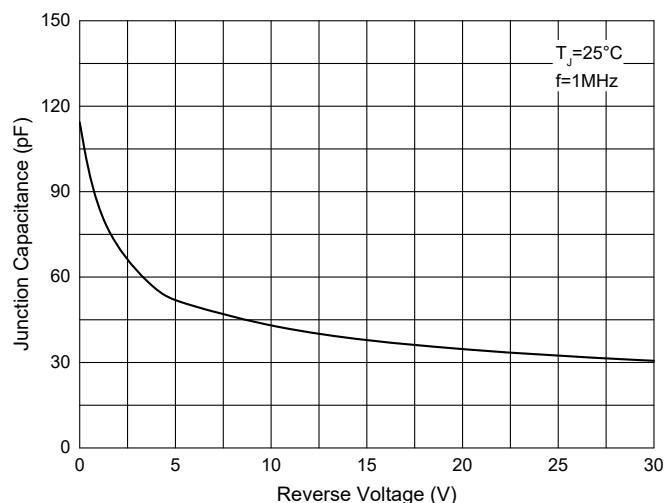


Fig. 5 - Typical Capacitance Characteristics



Ordering Information

Device	Packing
TBL608L-TP	Tape&Reel: 1.8Kpcs/Reel

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