

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)

4 Amp Low VF Bridge Rectifier 800 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit	
Farameter	Symbol	TBL408L	Oilit	
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	800	V	
DC Blocking Voltage	V_R			
RMS Reverse Voltage	V _{RMS}	560	V	
Average Rectified Forward Current @ T _C =100°C	I _{F(AV)}	4	Α	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		150	•	
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	300	- A	
Current Squared Time @1ms≤t≤8.3ms	l ² t	93	A ² s	

DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIM	MIN	MAX	MIN	MAX	NOIE	
Α	0.394	0.409	10.00	10.40		
В	0.382	0.398	9.70	10.10		
С	0.268	0.283	6.80	7.20		
D	0.051	0.059	1.30	1.50		
Е	0.055	0.071	1.40	1.80		
F	0.020	0.043	0.50	1.10		
G	0.000	0.006	0.00	0.15		
Н	0.193	0.201	4.90	5.10		

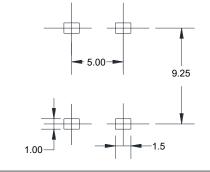
Internal Structure

Simplified Outline	Graphic Symbol
- + O MCC TBL408L	- + + + + + + + + + + + + + + + + + + +
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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.

Suggested Solder Pad Layout (mm)





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Case	Note 1		7		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Lead	Note 1		12		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		55		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;T _J =25°C		0.87	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	μΑ
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		38		pF

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



Curve Characteristics

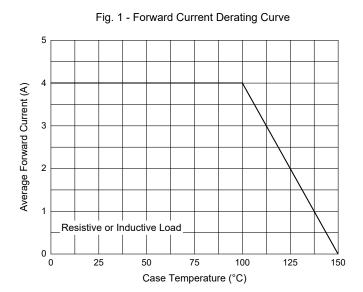


Fig. 3 - Typical Forward Characteristics

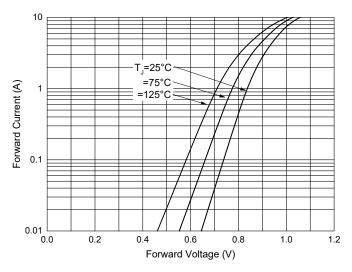


Fig. 5 - Typical Capacitance Characteristics

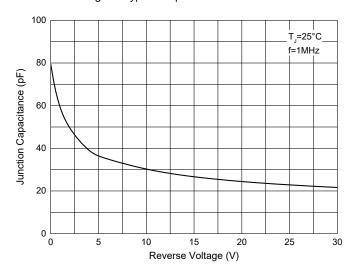


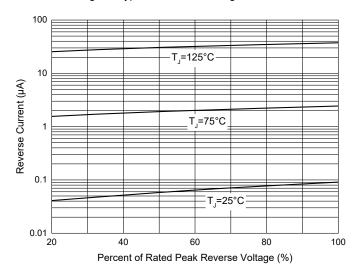
Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

180

(Y)
150
90
60
8.3 ms Single Half Sine-Wave
0
1 100 100

Fig. 4 - Typical Reverse Leakage Characteristics

Number of Cycles at 60 Hz





Ordering Information

Device	Packing		
TBL408L-TP	Tape&Reel: 1.8Kpcs/Reel		

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