

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Ideal For Automated Placement
- · High Surge Current Capability

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 3): 6°C/W Junction to Case
- Typical Thermal Resistance(Note 3): 15°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 55°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RTBL610	RTBL610	1000V	700V	1000V

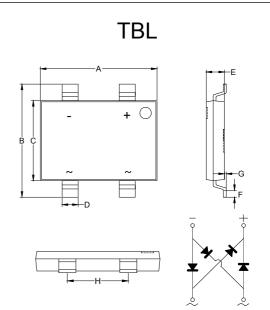
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	6.0A	T _C = 50°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V _F	1.30V	I _{FM} = 3.0A; T _J = 25°C (Note 4)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5µA	T _J = 25°C
Maximum Reverse Recovery Time	t _{rr}	500ns	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A
Rating for Fusing	l ² t	93.4A ² S	t<8.3ms

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

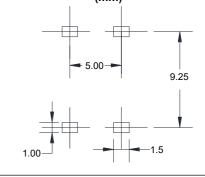
- 2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 3. Thermal Resistance Mounted on P.C.B with 30mm*15mm.*1.6mm
- 4. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

6 Amp Fast Recovery Glass Passivated Bridge Rectifiers 1000 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
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			

Suggested Solder Pad Layout (mm)





Curve Characteristics

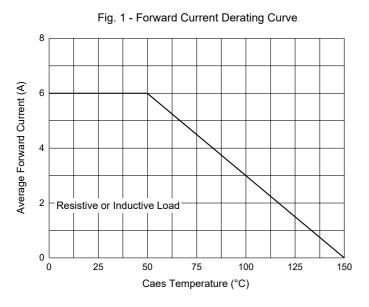


Fig. 3 - Typical Instantaneous Forward Characteristics

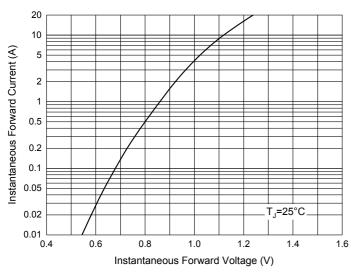
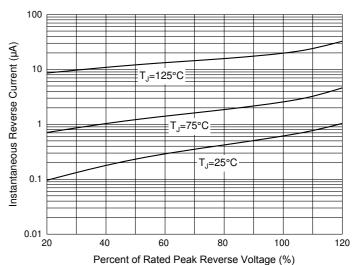


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

160

(V) team of the second of the secon

Fig. 4 - Typical Reverse Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:1.8Kpcs/Reel		

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