	E540886

6 Amp Bridge Rectifiers 1000 Volts

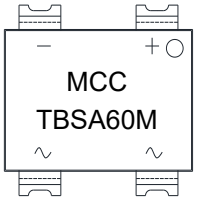
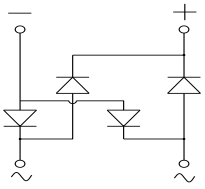
Features

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

Maximum Ratings @ 25°C (Unless Otherwise Specified)

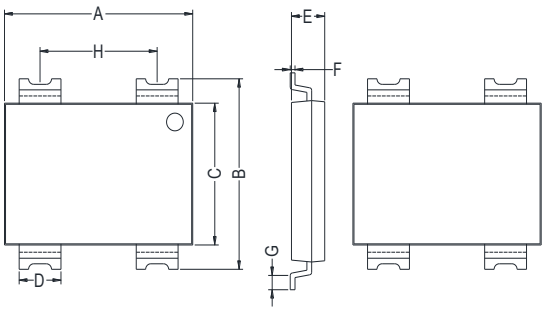
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	1000	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	700	V
Average Rectified Forward Current ,T_C=95°C	$I_{F(AV)}$	6	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	150	A
Non-Repetitive Peak Surge Current @ 1ms Square Wave		300	
I^2t Rating for Fusing @1ms≤t≤8.3ms	I^2t	93	A^2s

Internal Structure

Simplified Outline	Graphic Symbol
	

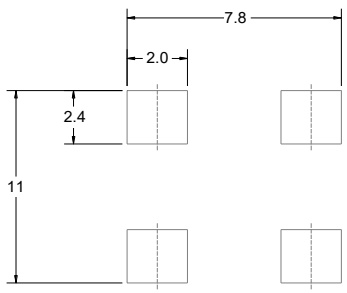
Note:
1.Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2.High temperature solder exemption applied, see EU directive annex 7a.

TBSG



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.339	0.362	8.60	9.20	
B	0.327	0.350	8.30	8.90	
C	0.244	0.260	6.20	6.60	
D	0.073	0.085	1.85	2.15	
E	0.053	0.069	1.35	1.75	
F	0.004	0.012	0.10	0.30	
G	0.016	0.031	0.40	0.80	
H	0.213	0.228	5.40	5.80	

Suggested Pad Layout(mm)



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
$Rth_{(J-C)}$	Thermal Resistance from Junction to Case	Note 1		6		°C/W
$Rth_{(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		10		°C/W
$Rth_{(J-A)}$	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			1.0	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		50		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

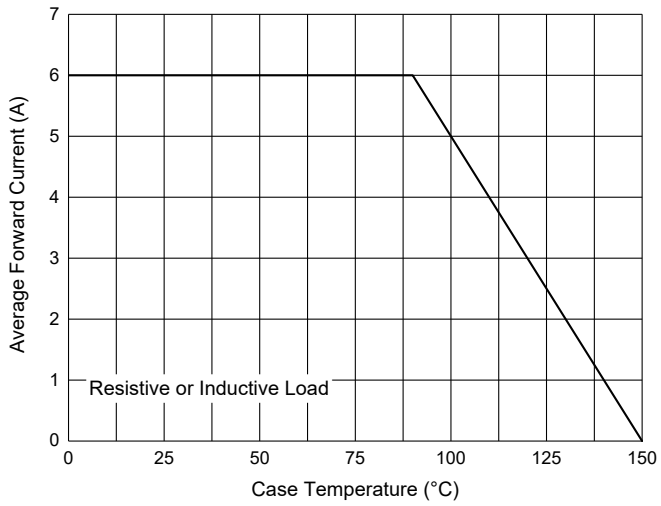


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

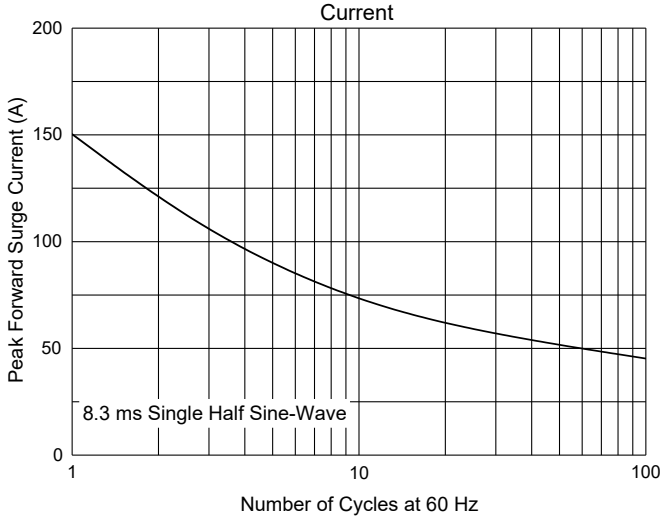


Fig. 3 - Typical Forward Characteristics

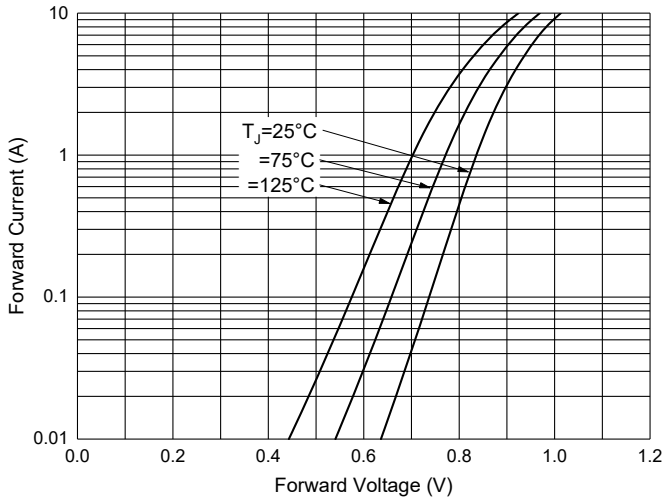


Fig. 4 - Typical Reverse Leakage Characteristics

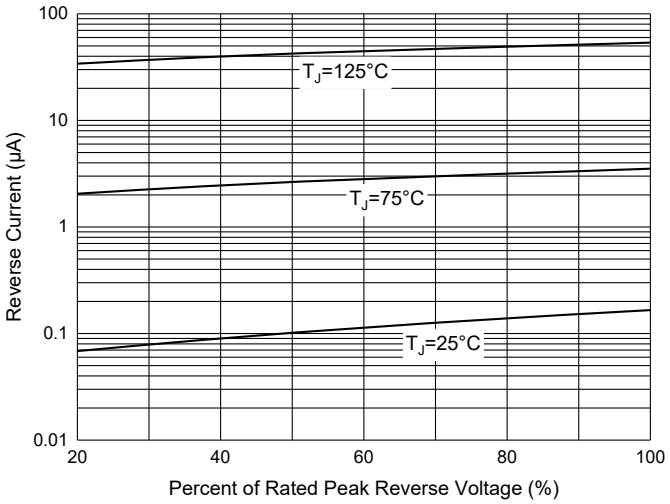
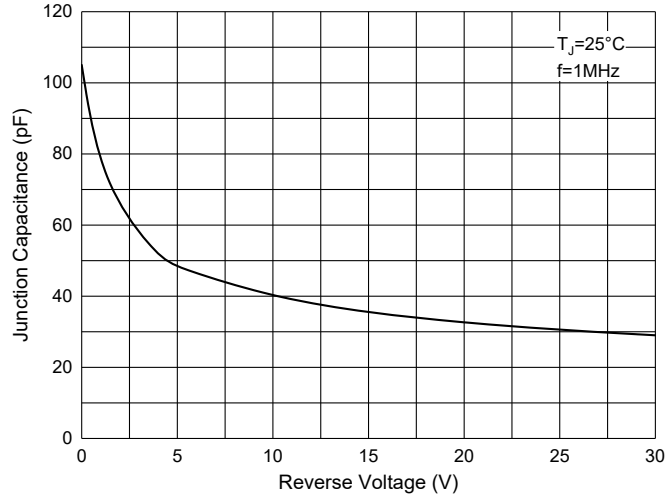


Fig. 5 - Typical Capacitance Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:2.5Kpcs/Reel

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