

FL E540886

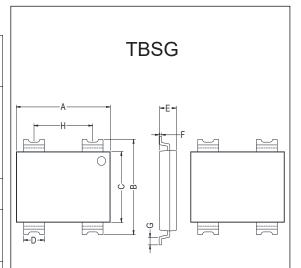
Features

- 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)

3 Amp Bridge Rectifiers 1000 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Cumbal	Value	Unit
Parameter	Symbol	value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	1000	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	700	V
Average Rectified Forward Current ,T _C =115°C	I _{F(AV)}	3	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		110	^
Non-Repetitive Peak Surge Current @ 1ms Square Wave	- I _{FSM}	220	Α
l²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	50.2	A ² s



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.339	0.362	8.60	9.20	
В	0.327	0.350	8.30	8.90	
С	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	
Н	0.213	0.228	5.40	5.80	

Internal Structure

Simplified Outline	Graphic Symbol
- +0 MCC TBSA30M	

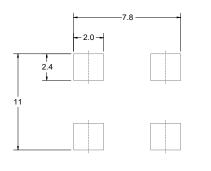
Note:

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

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

Suggested 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-C)	Thermal Resistance from Junction to Case	Note 1		7		°C/W
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		11		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		50		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1.5A;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	С	V _R =4V;f=1MHz;T _J =25°C		34		pF

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



Curve Characteristics

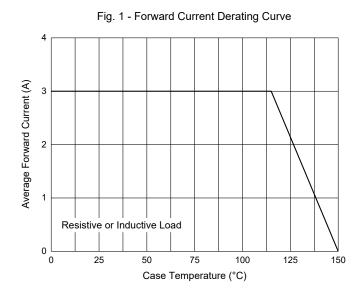


Fig. 3 - Typical Forward Characteristics

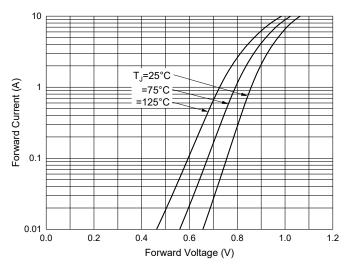


Fig. 5 - Typical Capacitance Characteristics

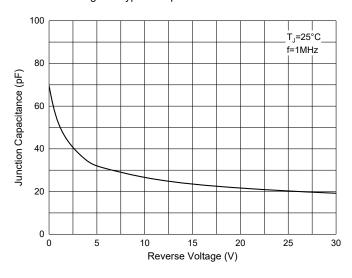


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

120

(V) 100

80

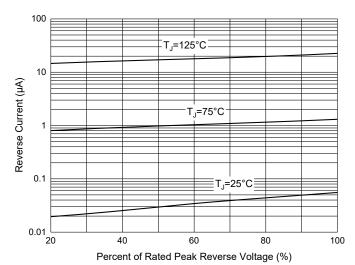
80

40

8.3 ms Single Half Sine-Wave
100

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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