

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 10°C/W Junction to Case
- Typical Thermal Resistance: 15°C/W Junction to Lead
- Typical Thermal Resistance: 55°C/W Junction to Ambient

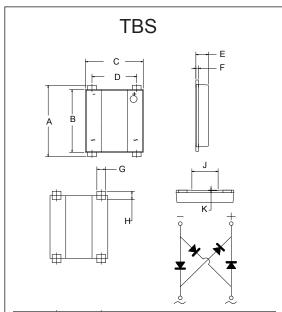
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
TBS30A	TBS30A	50V	35V	50V
TBS30B	TBS30B	100V	70V	100V
TBS30D	TBS30D	200V	140V	200V
TBS30G	TBS30G	400V	280V	400V
TBS30J	TBS30J	600V	420V	600V
TBS30K	TBS30K	800V	560V	800V
TBS30M	TBS30M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0A	T _C = 70°C
Peak Forward Surge Current	I _{FSM}	95A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.95V	I _{FM} = 1.5A T _J = 25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J = 25°C T _J = 125°C
Rating for Fusing	l²t	37A ² S	t<8.3ms

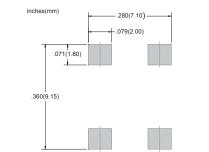
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

3.0 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.311	0.339	7.90	8.60	
В	0.283	0.291	7.20	7.40	
С	0.256	0.264	6.50	6.70	
D	0.197	0.205	5.00	5.20	
Е	0.051	0.059	1.30	1.50	
F	0.011	0.016	0.27	0.40	
G	0.037	0.045	0.95	1.15	
Н	0.028	0.041	0.70	1.05	
J	0.114	0.122	2.90	3.10	
K	0.0015	0.003	0.04	0.08	

Suggested Solder Pad Layout



^{2.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



Curve Characteristics

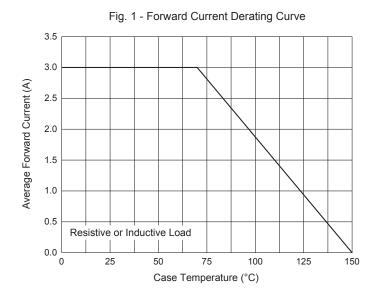
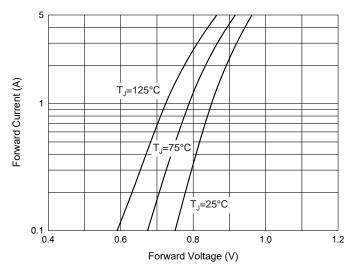


Fig. 3 - Typical Forward Characteristics



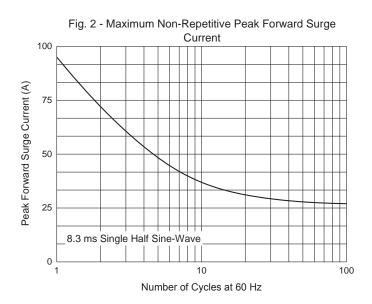
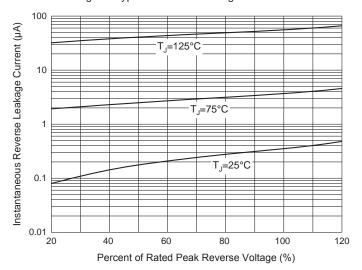


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel3Kpcs/Reel	

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