

#### **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
TBS22A	TBS22A	50V	35V	50V
TBS22B	TBS22B	100V	70V	100V
TBS22D	TBS22D	200V	140V	200V
TBS22G	TBS22G	400V	280V	400V
TBS22J	TBS22J	600V	420V	600V
TBS22K	TBS22K	800V	560V	800V
TBS22M	TBS22M	1000V	700V	1000V

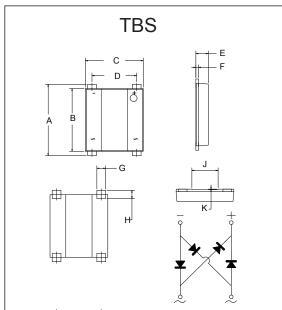
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.2A	T <sub>C</sub> = 110°C
Peak Forward Surge Current	I <sub>FSM</sub>	90A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.95V	I <sub>FM</sub> = 2A T <sub>J</sub> = 25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 500μΑ	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Rating for Fusing	l²t	33A <sup>2</sup> 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.

# 2.2 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	
E	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	

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#### **Curve Characteristics**

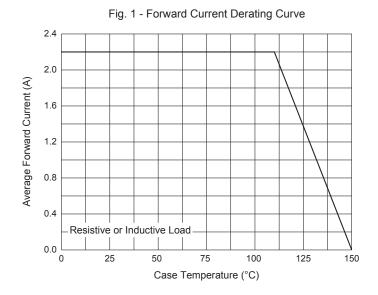
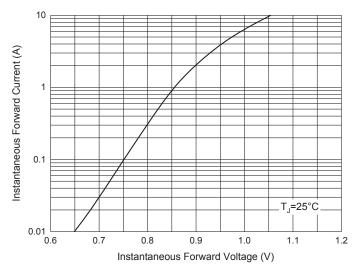


Fig. 3 - Typical Instantaneous Forward Characteristics



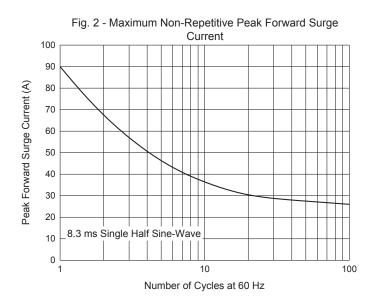
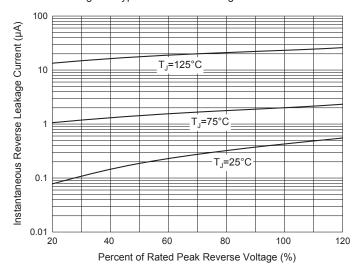


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel3Kpcs/Reel	

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