

Features

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

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Damanatan	0	Value							
Parameter	Symbol	TBS 22A	TBS 22B	TBS 22D	TBS 22G	TBS 22J	TBS 22K	TBS 22M	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Average Rectified Forward Current @ T _C =110°C	I _{F(AV)}	2.2			Α				
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1				90				Α
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	180						A	
Current Squared Time @1ms≤t≤8.3ms	l ² t	33			A ² s				

Marking Code

Part Number	Marking Code
TBS22A	TBS22A
TBS22B	TBS22B
TBS22D	TBS22D
TBS22G	TBS22G
TBS22J	TBS22J
TBS22K	TBS22K
TBS22M	TBS22M

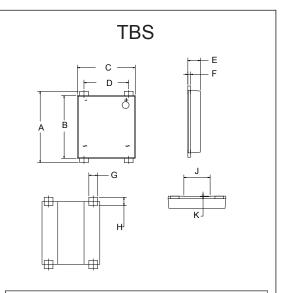
Internal Structure

Simplified Outline	Graphic Symbol			
MCC XXXXXX XXXX = Marking Code	+0			

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

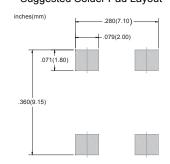
2. High temperature solder exemption applied, see EU directive annex 7a.

2.2 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



DIMENSIONS						
DIM INCHES		M	M	NOTE		
DIIVI	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	80.0		

Suggested Solder Pad Layout





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-L)	Thermal Resistance from Junction to Case	Note 1		10		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		55		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1.1A;T _J =25°C			0.95	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 100	uA
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		35		pF

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



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

2.4

2.0

1.6

0.8

0.4

Resistive or Inductive Load

0.0

0 25 50 75 100 125 150

Resistive or Inductive Load

0.0

0.25

50

75

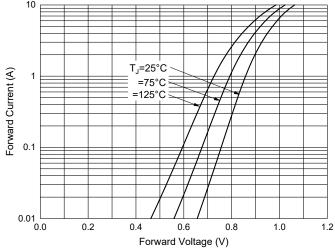
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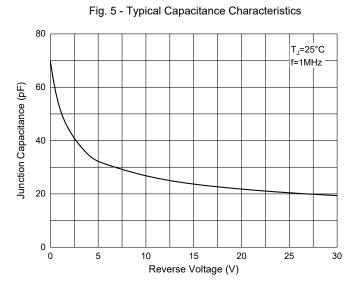
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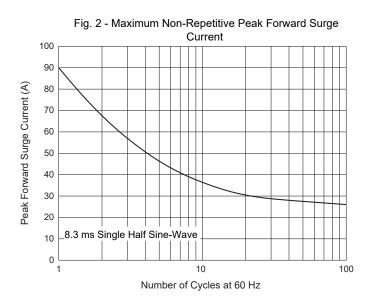
15

Case Temperature (°C)

Fig. 3 - Typical Forward Characteristics







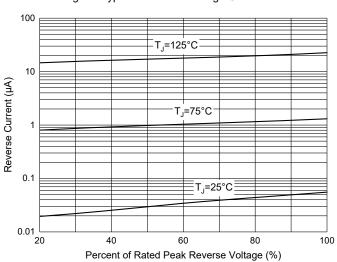


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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