

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

TBS20A THRU TBS20M

Features

- · Glass passivated chip
- · High surge forward current capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Mechanical Data

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

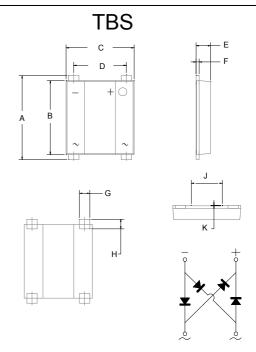
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
TBS20A	TBS20A	50V	35V	50V
TBS20B	TBS20B	100V	70V	100V
TBS20D	TBS20D	200V	140V	200V
TBS20G	TBS20G	400V	280V	400V
TBS20J	TBS20J	600V	420V	600V
TBS20K	TBS20K	800V	560V	800V
TBS20M	TBS20M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2.0 A	Tc=110℃		
Peak Forward Surge	I _{FSM}	75A	8.3ms, half sine		
Current					
Maximum		1.02V	I _{FM} = 1A;		
Instantaneous	V_{F}	1.10V	$I_{FM} = 2A;$		
Forward Voltage			$T_A = 25^{\circ}C$		
Maximum DC					
Reverse Current At	I_R	5uA	$T_j = 25$ °C $T_j = 125$ °C		
Rated DC Blocking		500uA	T₁ = 125 °C		
Voltage			, -		
Typical Thermal	R_{thJA}	55°C/W			
Resistance	R_{thJC}	10°c/W			
	R_{thJL}	15°C/W			
Rating For Fusing	l ² t	23A ² s	t<8.30ms		

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

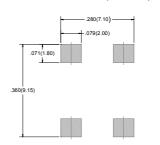
2.0 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.311	.339	7.90	8.60			
В	.283	.291	7.20	7.40			
С	.256	.264	6.50	6.70			
D	.197	.205	5.00	5.20			
Е	.051	.059	1.30	1.50			
F	.011	.016	0.27	0.40			
G	.037	.045	0.95	1.15			
Η	.028	.041	0.70	1.05			
7	.114	.122	2.90	3.10			
K	.0015	.003	0.04	0.08			

Mounting Pad Layout

Dimensions in inches and (millimeters)



TBS20A thru TBS20M



FIG1:lo-Tc Curve

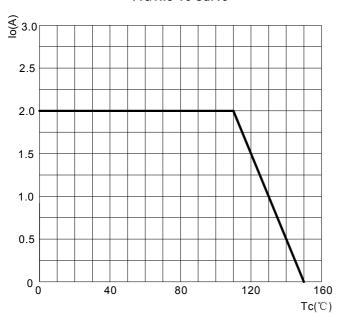


FIG2:Surge Forward Current Capadility

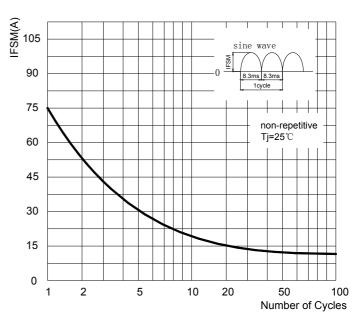


FIG3: Forward Voltage

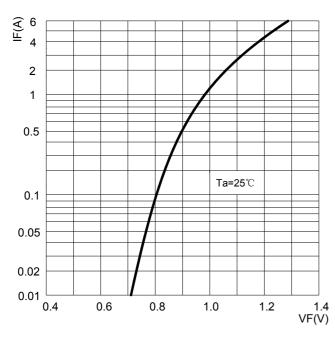
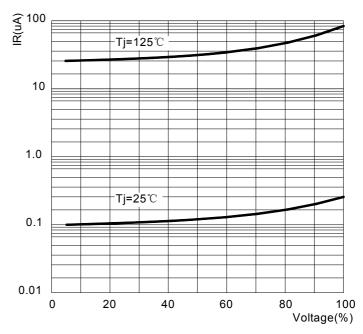


FIG4:Typical Reverse Characteristics





Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Revision: A 3 of 3 2015/12/09