



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

TBS30A THRU TBS30M

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

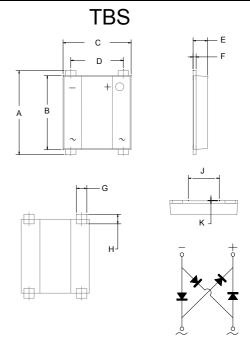
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
TBS30A	TBS30A	50V	35V	50V
TBS30B	TBS30B	100V	70V	100V
TBS30D	TBS30D	200V	140V	200V
TBS30G	TBS30G	400V	280V	400V
TBS30J	TBS30J	600V	420V	600V
TBS30K	TBS30K	800V	560V	800V
TBS30M	TBS30M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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0 A	Tc=70 °C			
Peak Forward Surge	I _{FSM}	95A	8.3ms, half sine			
Current						
Maximum			1 - 1 5 A			
Instantaneous	V_F	0.95V	$I_{FM} = 1.5A;$			
Forward Voltage			$T_A = 25^{\circ}C$			
Maximum DC						
Reverse Current At	I_R	5µA	T _j = 25 °C T _j = 125 °C			
Rated DC Blocking		5 00µA	T = 125 °C			
Voltage		σοσμίτ	1) 120 -			
Typical Thermal	R_{thJA}	55°C/W				
Resistance	R_{thJC}	10°c/W				
	R_{thJL}	15°C/W				
	HIGE	10 0/11				
Rating For Fusing	l ² t	$33A^2s$	t<8.30ms			

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

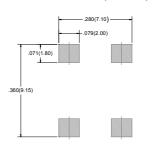
3.0 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts



DIMENSIONS						
	INCHES		ММ			
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		
Н	.028	.041	0.70	1.05		
J	.114	.122	2.90	3.10		
K	.0015	.003	0.04	0.08		

Mounting Pad Layout

Dimensions in inches and (millimeters)





■Characteristics(Typical)

2.5 2.0 1.5 1.0 0.5 0 40 80 120 160 Tc(°C)

FIG1:Io-Tc Curve

FIG2:Surge Forward Current Capadility

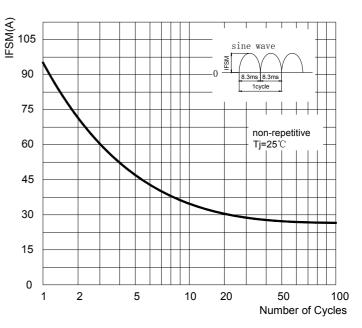


FIG3: Forward Voltage

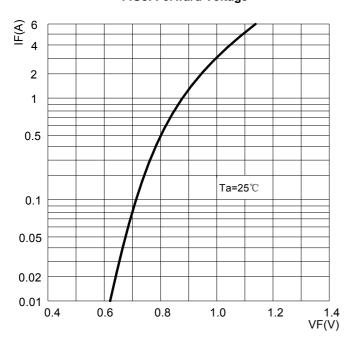
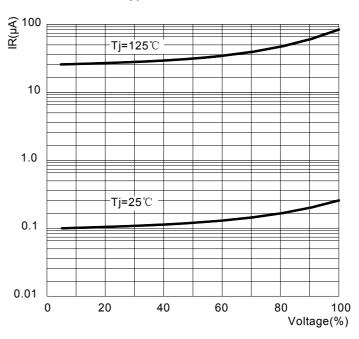


FIG4:Typical Reverse Characteristics





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.