



ZBMCC

ZIBO MICRO COMMERCIAL
COMPONENTS CORP.



ADD:ZhangLiu Road No.6
Zhangdian Zibo Shandong
P.C.:255000
Tel:+86-533-3032000/3032025
Fax:+86-533-3112884

1N4448W

**500mW 100 Volts
Switching Diode**

Features

- Halogen free available upon request by adding suffix "-HF"
- Fast Switching Speed
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Marking Code: T5
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Maximum Ratings @ 25°C Unless Otherwise Specified

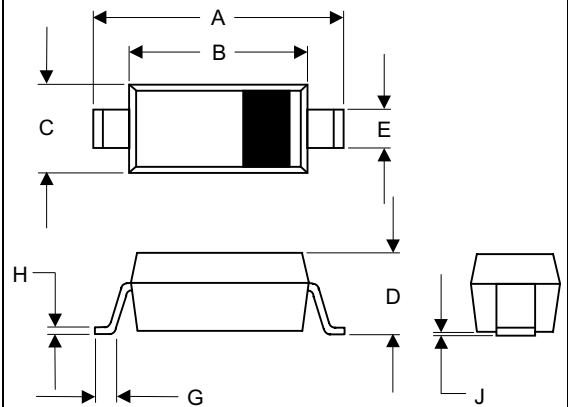
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Average Rectified Current	I_b	250	mA
Peak Forward Surge Current	I_{FSM}	2	A
Power Dissipation	P_D	500	mW
Thermal Resistance*	R_{thja}	250	°C/W
Operation/Storage Temp. Range	T_j, T_{STG}	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 100mA;$ $T_J = 25°C$ (Note 1)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 50µA 2.5uA	$V_R=20Volts$ $T_J = 25°C$ $T_J = 150°C$ $V_R=75Volts$
Typical Junction Capacitance	C_J	4pF	Measured at 1.0MHz, $V_R=4.0V$
Reverse Recovery Time	T_{rr}	4nS	$I_F=10mA$ $V_R = 6V$ $R_L=100Ω$

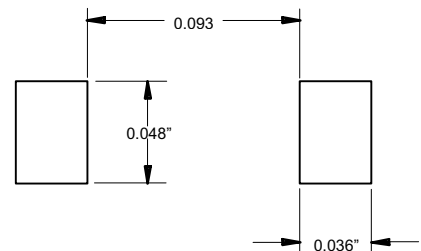
Note: 1. Valid provided that terminals are kept at ambient temperature

SOD123



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

SUGGESTED SOLDER PAD LAYOUT

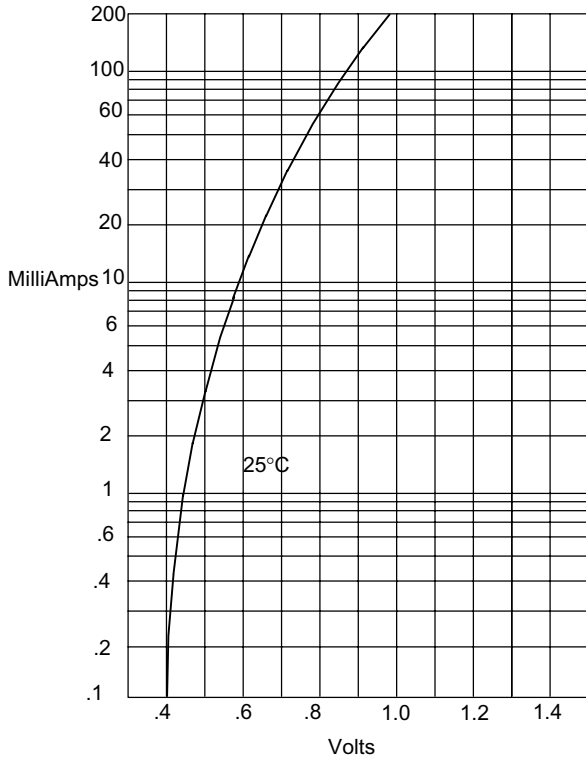


1N4448W



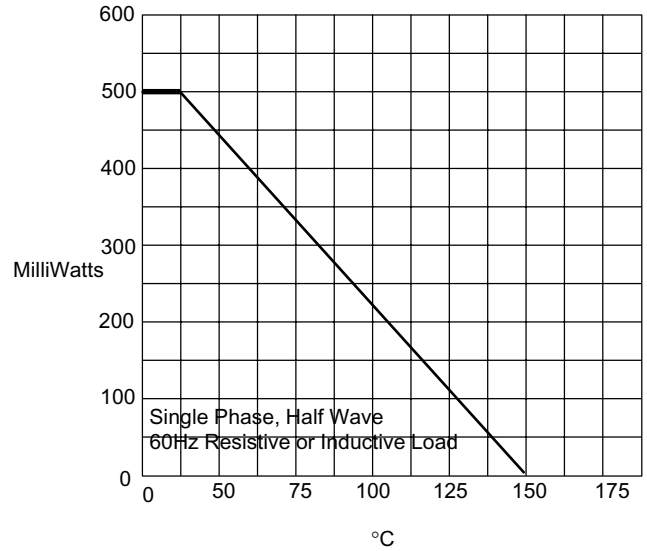
ZIBO MICRO COMMERCIAL
COMPONENTS CORP.

Figure 1
Typical Forward Characteristics



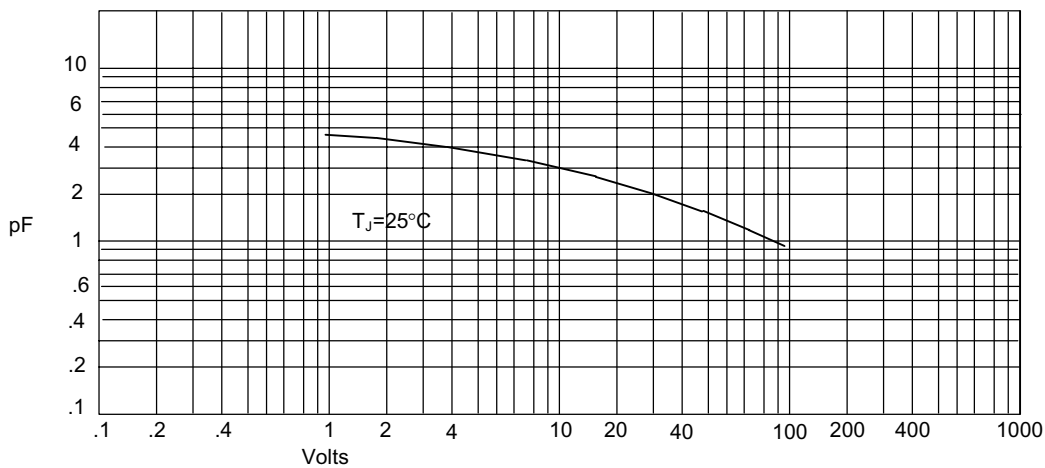
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Admissible Power Dissipation - MilliWatts *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



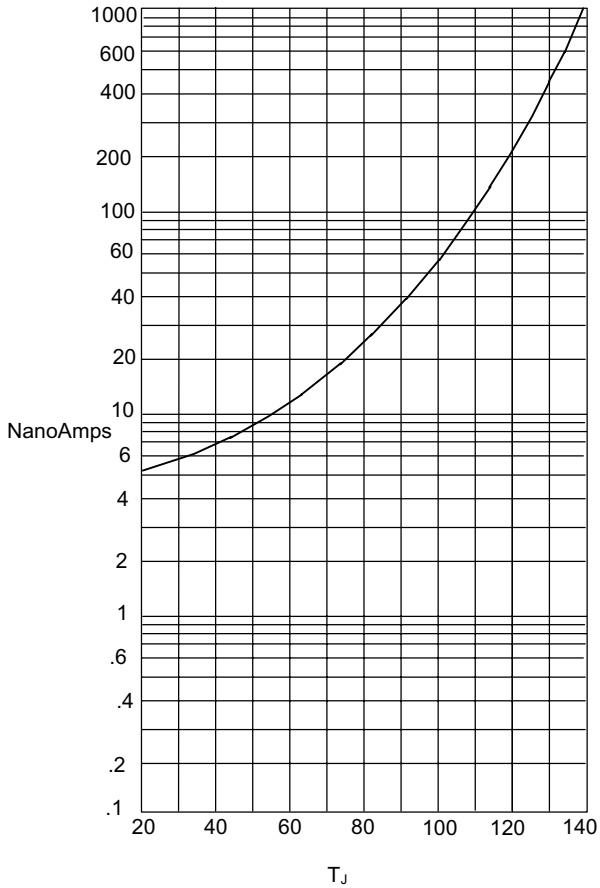
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

1N4448W



ZIBO MICRO COMMERCIAL
COMPONENTS CORP.

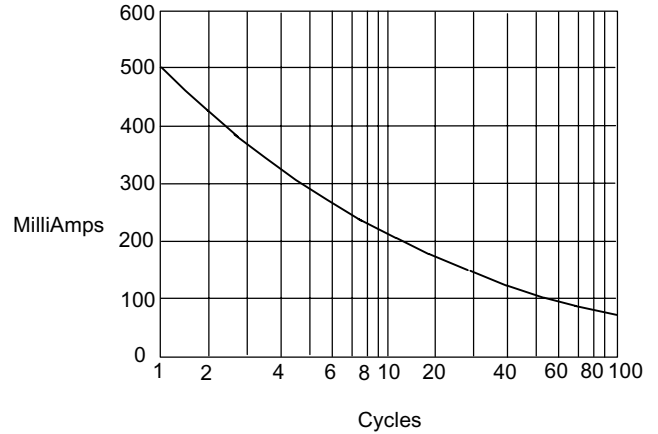
Figure 4
Typical Reverse Characteristics



T_A=25°C
T_A=100°C

Instantaneous Reverse Leakage Current - NanoAmperes *versus* Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles



ZIBO MICRO COMMERCIAL
COMPONENTS CORP.

Ordering Information

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

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

*****LIFE SUPPORT*****

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

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuine parts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC 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.