TWOXG/TWOXMG SERIES

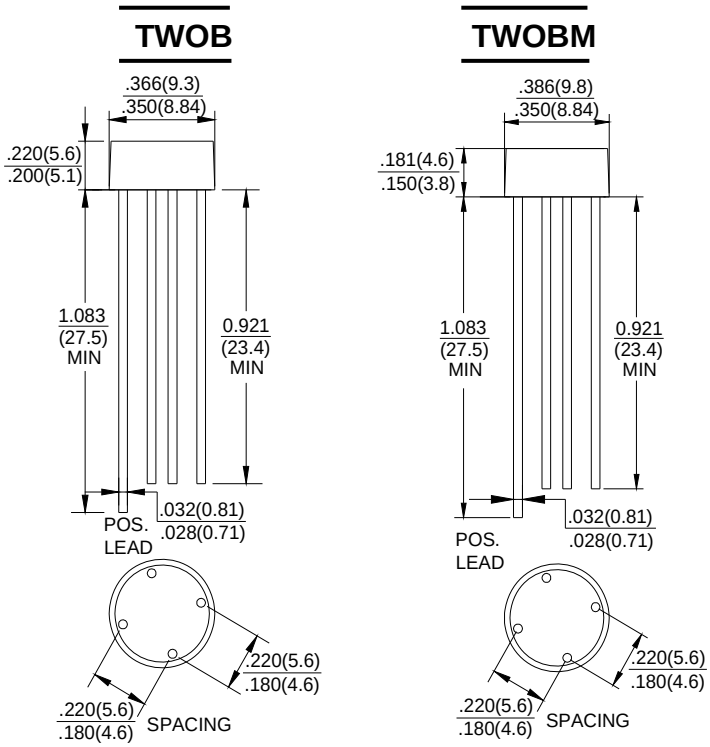
GLASS PASSIVATED
BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000** Volts
FORWARD CURRENT - **1.5** Ampere

Features

- Surge overload rating -40 amperes peak
- Ldeal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in expensive product
- Mounting Position :Any
- Lead:sliver plated copper lead.

Dimensions In Inches and (milimeters)



Dimensions in inches and (millimeters)

Part Number Code

T	W	0	0	5	G	*
1	2	3	4	5	6	7

Product Type	
TSK	TW series

Peak Repetitive Reverse Voltage (V)	
005	50V
01	100V
02	200V

ZZZ	Internal code rule

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TW005G / TW005MG	TW01G / TW01MG	TW02G / TW02MG	TW04G / TW04MG	TW06G / TW06MG	TW08G / TW08MG	TW10G / TW10MG	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=25℃	$I_{(AV)}$	1.5							A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	40							A
I^2t Rating for Fusing (t＜8.3ms)	I^2t	6.64							A^2s
Maximum Forward Voltage Drop per Element at 2.0A Peak	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage @T_J=25℃	I_R	10.0							μA
@T_J=100℃		1.0							mA
Operating Temperature Range	T_J	-55 to +150							℃
Operating Temperature Range	T_{STG}	-55 to +150							℃

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG.1-MXIMUM NON-REPETITIVE
SURGE CURRENT

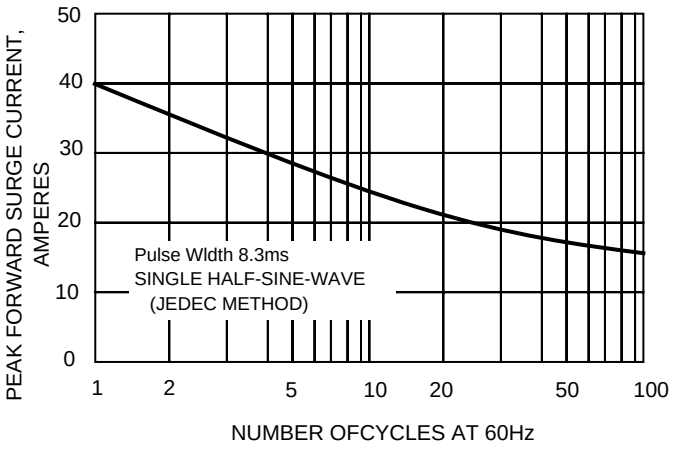


FIG.2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

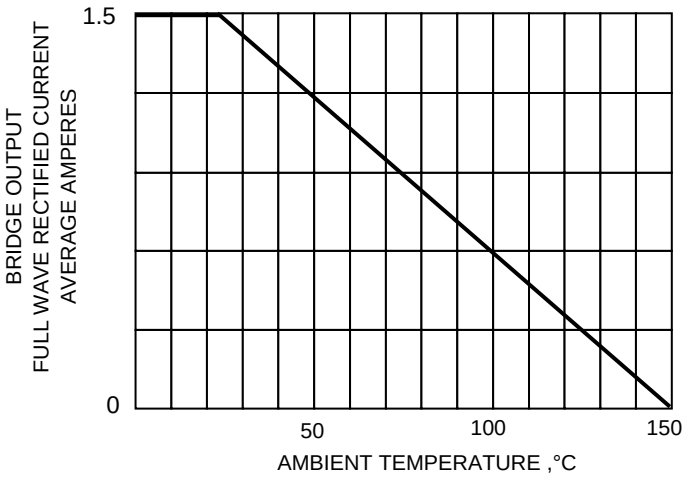


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

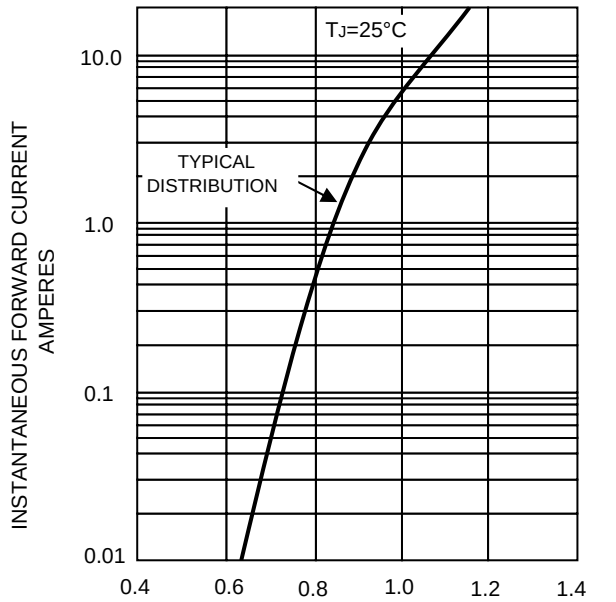


FIG.4-TYPIACL REVERSE
CHARACTERISTICS