

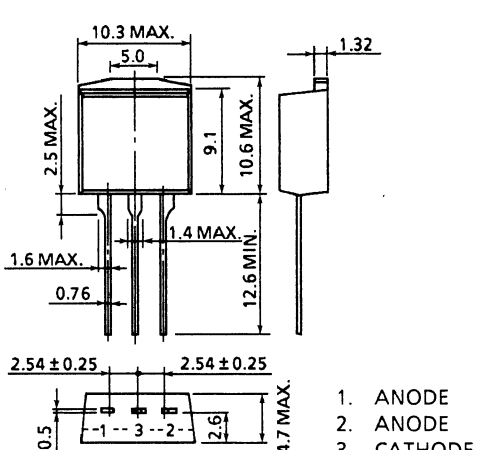
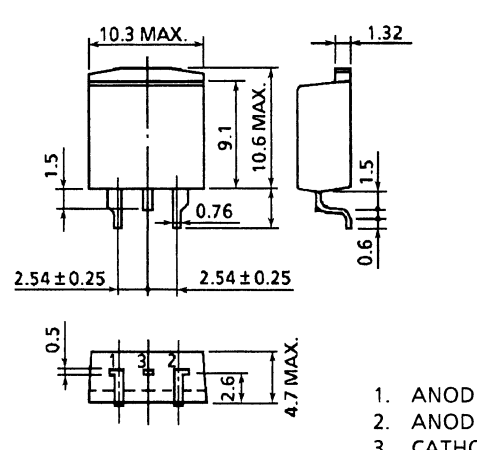
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

# 10GWJ2C48C,U10GWJ2C48C

SWITCHING MODE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM}=40V$
- Average Output Rectified Current :  $I_O=10A$
- Low Switching Losses and Output Noise.

Unit in mm

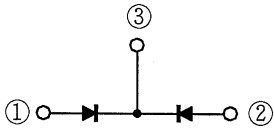
10GWJ2C48C	U10GWJ2C48C
	
JEDEC —	JEDEC —
EIAJ —	EIAJ —
TOSHIBA 12-10D1A	TOSHIBA 12-10D2A

## MAXIMUM RATINGS ( $T_a = 25^{\circ}C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Repetitive Peak Reverse Surge Voltage (Note 1)	$V_{RRSM}$	48	V
Average Output Rectified Current	$I_O$	10	A
Peak One Cycle Surge Forward Current (Sine Wave)	$I_{FSM}$	100 (50Hz) 110 (60Hz)	A
Junction Temperature	$T_j$	-40~125	$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-40~150	$^{\circ}C$

Note 1 : Pulse Width ( $t_w$ )  $\leq 500ns$ , duty ( $t_w / T$ )  $\leq 1 / 25$

## POLARITY

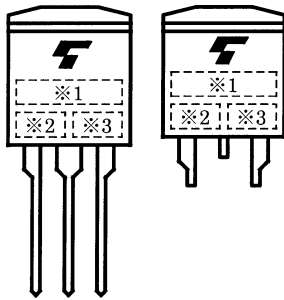


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

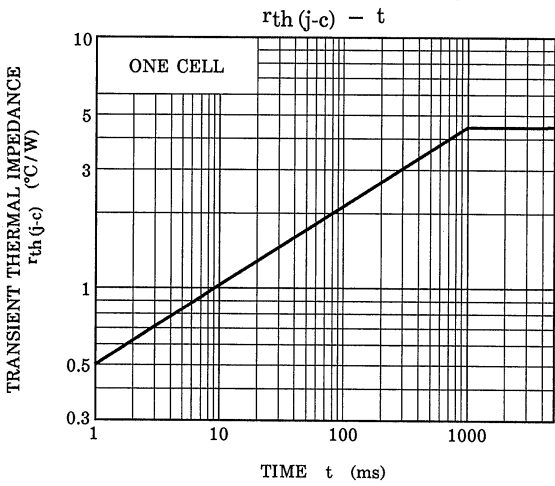
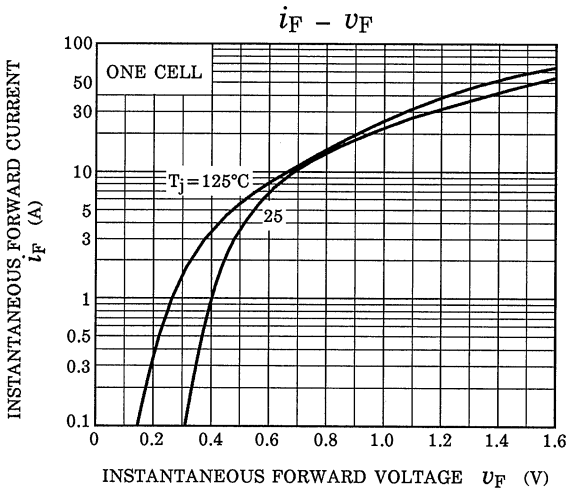
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V <sub>FM</sub>	I <sub>FM</sub> =5A	—	—	0.55	V
Repetitive Peak Reverse Current	I <sub>RRM</sub>	V <sub>RRM</sub> =Rated	—	—	3.5	mA
Junction Capacitance	C <sub>j</sub>	V <sub>R</sub> =10V, f=1.0MHz	—	195	—	pF
Thermal Resistance	R <sub>th</sub> (j-c)	DC Total, Junction to Case	—	—	2.2	°C / W

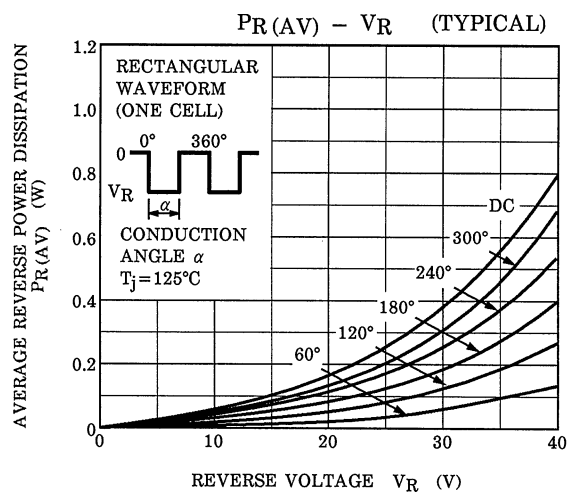
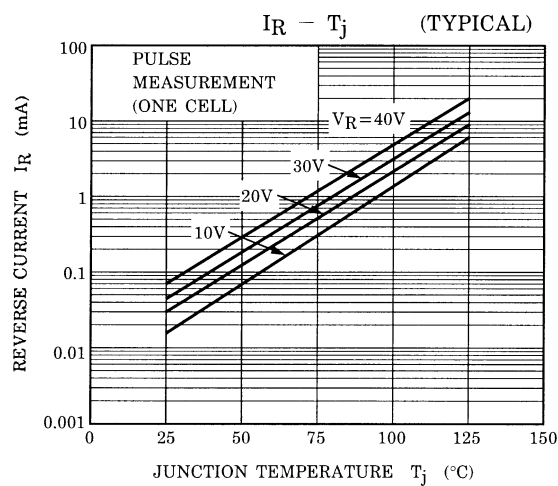
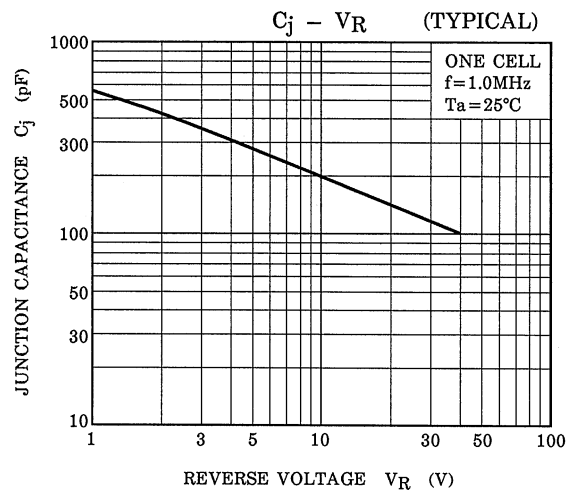
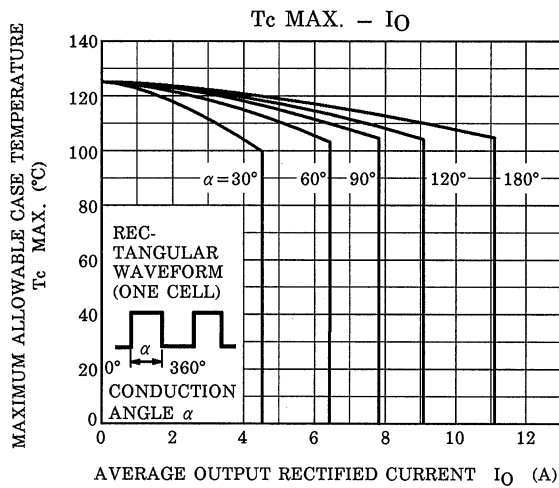
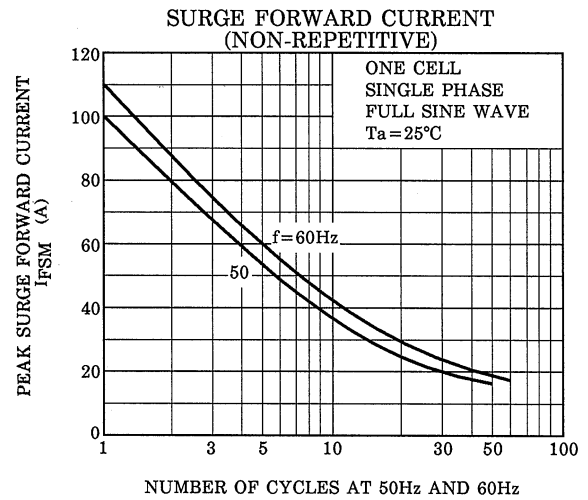
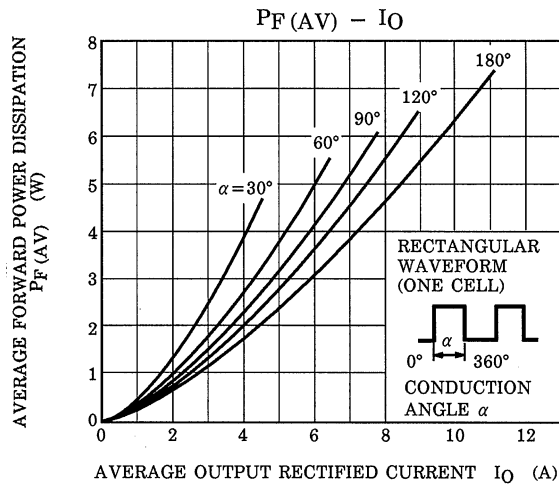
V<sub>FM</sub>, I<sub>RRM</sub>, C<sub>j</sub> : A Value of one cell.

MARKING



* 1	MARK	10GWJ2C	TYPE	10GWJ2C48C,U10GWJ2C48C
* 2	C			
* 3	Lot Number □ □ — Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)			





**RESTRICTIONS ON PRODUCT USE**

000707EAA

- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.  
In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.