

TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

10GWJ2C48C, U10GWJ2C48C

SWITCHING TYPE 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.

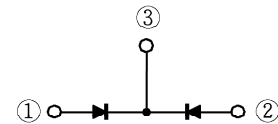
Unit in mm

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

MAXIMUM RATINGS

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	°C
Storage Temperature Range	T_{stg}	-40~150	°C

POLARITY



(Note 1) Pulse Width (t_w) ≤ 500ns, duty (t_w/T) ≤ 1/25

961001EAA2

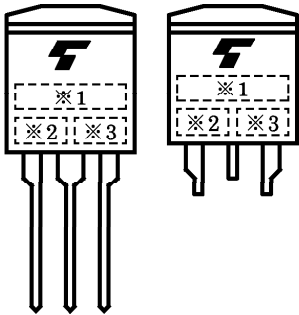
● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product 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 products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

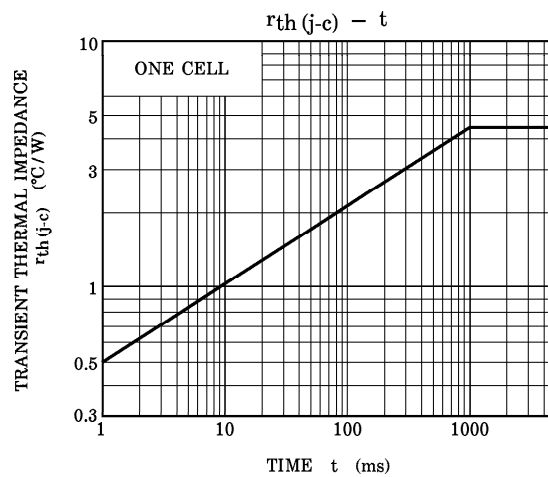
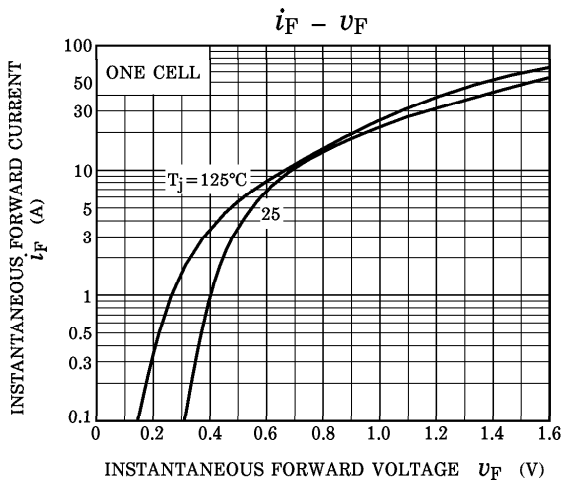
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 5A$	—	—	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	3.5	mA
Junction Capacitance	C_j	$V_R = 10V, f = 1.0MHz$	—	195	—	pF
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	—	2.2	C°/W

V_{FM} , I_{RRM} , C_j : A value of one cell.

MARKING



※1	MARK	10GWJ2C	TYPE	10GWJ2C48C, U10GWJ2C48C
※2	C			
※3	Lot Number <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px; margin-left: 10px;"></div> <div style="margin-left: 5px;">Month (Starting from Alphabet A)</div> </div> <div style="margin-left: 20px;"> <div style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></div> <div style="margin-left: 5px;">Year (Last Number of the Christian Era)</div> </div>			



961001EAA2'

- 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.

