

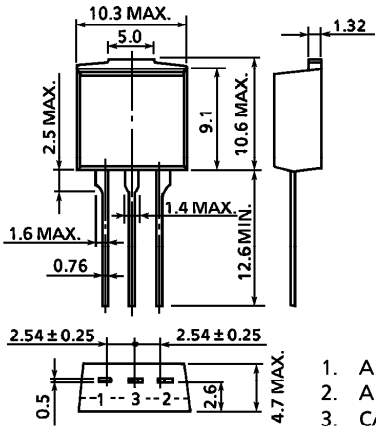
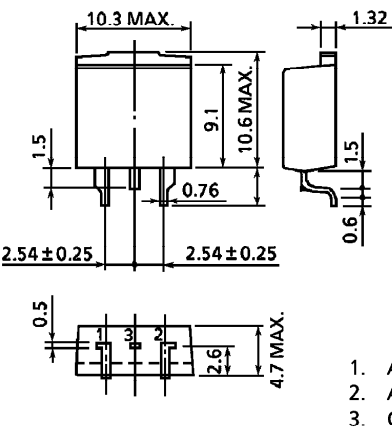
TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

5GWJ2C48C, U5GWJ2C48C

SWITCHING TYPE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

- Repetitive Peak Reverse Voltage : $V_{RRM}=40V$
- Average Output Rectified Current : $I_O=5A$
- Low Switching Losses and Output Noise.

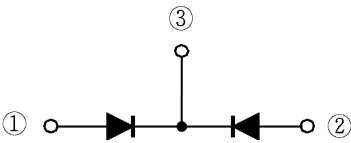
Unit in mm

5GWJ2C48C	U5GWJ2C48C
	
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	5	A
Peak One Cycle Surge Forward Current (Sin Wave)	I_{FSM}	50 (50Hz) 55 (60Hz)	A
Junction Temperature	T_j	-40~125	°C
Storage Temperature Range	T_{stg}	-40~150	°C

POLARITY



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

961001EAA2

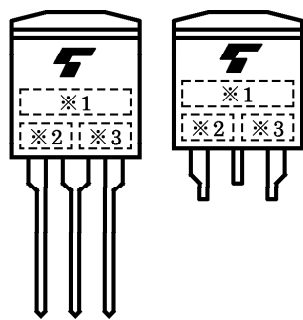
● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing 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 CHARACTERISTIC(Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 2.5A	—	0.55	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = Rated	—	3.5	mA
Junction Capacitance	C _j	V _R = 10V, f = 1.0MHz	100	—	pF
Thermal Resistance	R _{th(j-c)}	DC Total, Junction to Case	—	3.0	°C / W

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

MARKING



※1	MARK	5GWJ2C	TYPE	5GWJ2C48C, U5GWJ2C48C
※2	C			
※3	Lot Number □ □ — Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)			

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.

