

**TOSHIBA**

**5GWJ2C48C, U5GWJ2C48C**

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.

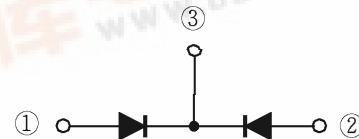
Unit in mm

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)	A
		55 (60Hz)	
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

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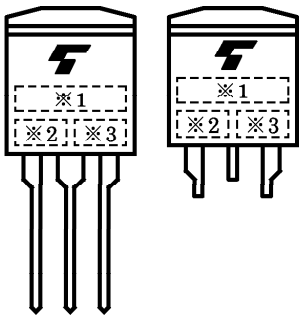
TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA 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	$I_{RRM}$	$V_{RRM}=\text{Rated}$	—	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 <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> <span style="margin-left: 5px;">— Month (Starting from Alphabet A)</span>  <span style="margin-left: 5px;">— Year (Last Number of the Christian Era)</span> </div>			

