

TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

# 30GWJ2C48C, U30GWJ2C48C

SWITCHING TYPE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM}=40V$
- Average Output Rectified Current :  $I_O=30A$
- Low Switching Losses and Output Noise.

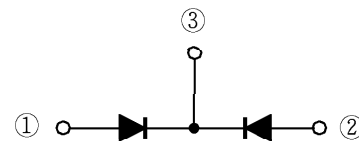
Unit in mm

30GWJ2C48C		U30GWJ2C48C	
<p>1. ANODE 2. ANODE 3. CATHODE</p>		<p>1. ANODE 2. ANODE 3. CATHODE</p>	
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	$I_O$	30	A
Peak One Cycle Surge Forward Current (Sine Wave)	$I_{FSM}$	300 (50Hz)	A
		330 (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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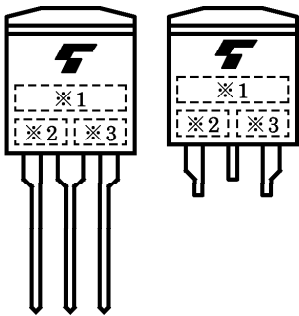
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ELECTRICAL CHARACTERISTIC (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	V <sub>FM</sub>	I <sub>FM</sub> = 15A	—	0.55	V
Repetitive Peak Reverse Current	I <sub>RRM</sub>	V <sub>RRM</sub> = Rated	—	15	mA
Junction Capacitance	C <sub>j</sub>	V <sub>R</sub> = 10V, f = 1.0MHz	600	—	pF
Thermal Resistance	R <sub>th(j-c)</sub>	DC Total, Junction to Case	—	1.2	°C/W

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

MARKING



※1	MARK	30GWJ2C	TYPE	30GWJ2C48C, U30GWJ2C48C
※2	C			
※3	Lot Number □ □ — Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)			

