

TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

30FWJ2C48M, U30FWJ2C48M

LOW FORWARD VOLTAGE SCHOTTKY BARRIER DIODE
 SWITCHING TYPE POWER SUPPLY APPLICATION
 CONVERTER & CHOPPER APPLICATION

- Peak Forward Voltage : $V_{FM} \leq 0.47V$
- Repetitive Peak Reverse Voltage : $V_{RRM} = 30V$
- Average Output Rectified Current : $I_O = 30A$
- Low Switching Losses and Output Noise.

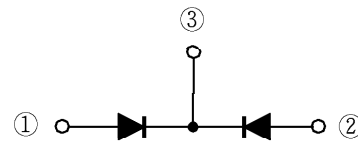
Unit in mm

30FWJ2C48M		U30FWJ2C48M	
JEDEC	—	JEDEC	—
EIAJ	—	EIAJ	—
TOSHIBA	12-10D1A	TOSHIBA	12-10D2A

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Output Rectified Current	I_O	30	A
Peak One Cycle Surge Forward Current (Sin Wave)	I_{FSM}	300 (50Hz) 330 (60Hz)	A
Junction Temperature	T_j	-40~125	°C
Storage Temperature Range	T_{stg}	-40~150	°C

POLARITY



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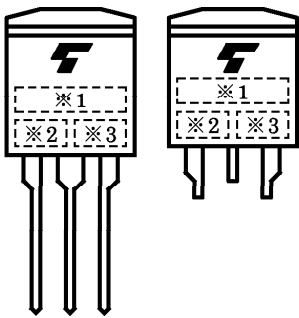
● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing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

CHARACTERISTIC	SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 15A	—	0.47	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 30V	—	15	mA
Junction Capacitance	C _j	V _R = 10V, f = 1.0MHz	820	—	pF
Thermal Resistance	R _{th(j-c)}	DC Total, Junction to Case	—	1.2	°C/W

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

MARKING



※1	MARK	30FWJ2C	TYPE	30FWJ2C48M, U30FWJ2C48M
※2	M			
※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>			

