TOSHIBA SCHOTTKY BARRIER RECTIFIER STACK SCHOTTKY BARRIER TYPE

# 10FWJ2C48M, U10FWJ2C48M

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

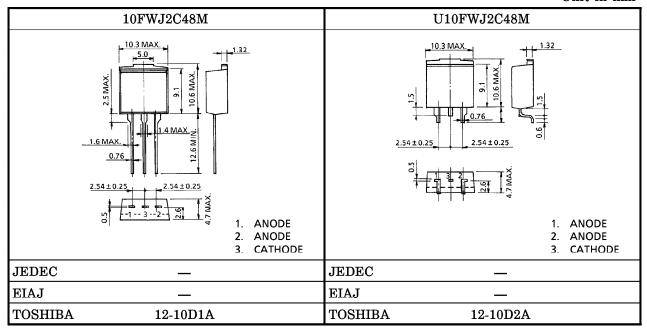
Peak Forward Voltage :  $V_{FM} \le 0.47V$ 

Repetitive Peak Reverse Voltage : V<sub>RRM</sub> = 30V

• Average Output Rectified Current: IO=10A

• Low Switching Losses and Output Noise.

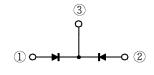
Unit in mm



#### **MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$v_{RRM}$	30	V	
Average Output Rectified Current	IO	10	Α	
Peak One Cycle Surge Forward	T-0	100 (50Hz)	A	
Current (Sine Wave)	IFSM	110 (60Hz)		
Junction Temperature	$T_{j}$	-40~125	$^{\circ}\mathrm{C}$	
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~150	°C	

## **POLARITY**



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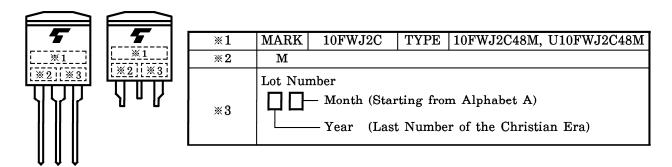
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#### **ELECTRICAL CHARACTERISTICS** (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{\mathbf{FM}}$	$I_{\text{FM}} = 5A$	_	_	0.47	V
Repetitive Peak Reverse Current	$I_{ m RRM}$	$V_{RRM} = 30V$		_	3.5	mA
Junction Capacitance	$\mathbf{c_{j}}$	$V_R = 10V$ , $f = 1.0MHz$	_	290	_	pF
Thermal Resistance	$ m R_{th~(j-c)}$	DC Total, Junction to Case	_	_	2.2	°C/W

 $V_{\mbox{FM}}$ ,  $I_{\mbox{RRM}}$ ,  $C_{\mbox{\scriptsize j}}$ : A value of one cell.

### **MARKING**



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