

**TOSHIBA****10JL2C48A,U10JL2C48A**

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

**10JL2C48A, U10JL2C48A**SWITCHING TYPE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 600\text{ V}$
- Average Output Rectified Current :  $I_O = 10\text{ A}$
- Ultra Fast Reverse-Recovery Time :  $t_{rr} = 35\text{ ns (Max.)}$
- Low Switching Losses and Output Noise.

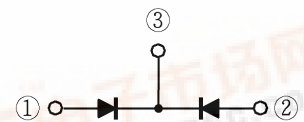
Unit in mm

10JL2C48A	U10JL2C48A
JEDEC —	JEDEC —
EIAJ —	EIAJ —
TOSHIBA 12-10D1A	TOSHIBA 12-10D2A

## MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	600	V
Average Output Rectified Current	$I_O$	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive, Sine Wave)	$I_{FSM}$	40	A
Junction Temperature	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C

## POLARITY



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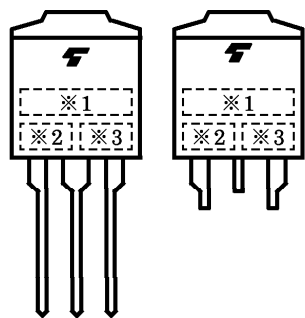
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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note)	V <sub>FM</sub>	I <sub>FM</sub> = 5 A	—	—	4.0	V
Repetitive Peak Reverse Current (Note)	I <sub>RRM</sub>	V <sub>RRM</sub> = 600 V	—	—	50	μA
Reverse Recovery Time (Note)	t <sub>rr</sub>	I <sub>F</sub> = 2 A, di / dt = −20 A / μs	—	—	35	ns
Junction Capacitance	C <sub>j</sub>	V <sub>R</sub> = 10 V, f = 1.0 MHz	—	36	—	pF
Thermal Resistance	R <sub>th(j-c)</sub>	DC Total	—	—	2.5	°C / W

(Note) : A value of one cell.

MARKING



※ 1	MARK	10JL2C	TYPE	10JL2C48A, U10JL2C48A
※ 2	A			
※ 3	Lot Number □□ — Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)			

