

TOSHIBA

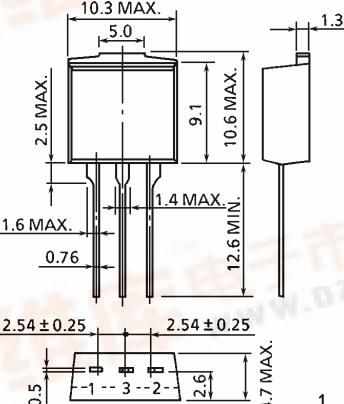
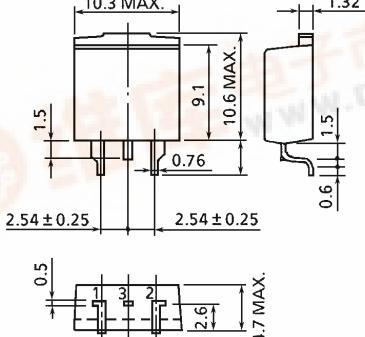
10JL2C48A, U10JL2C48A

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

10JL2C48A, U10JL2C48ASWITCHING TYPE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

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

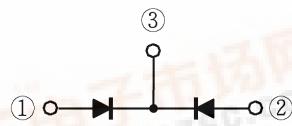
Unit in mm

10JL2C48A		U10JL2C48A	
	1. ANODE 2. ANODE 3. CATHODE		1. ANODE 2. ANODE 3. CATHODE
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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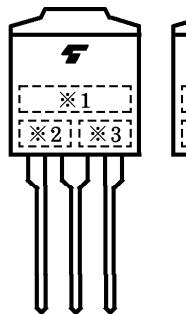
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ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note)	V_{FM}	$I_{FM} = 5 \text{ A}$	—	—	4.0	V
Repetitive Peak Reverse Current (Note)	I_{RRM}	$V_{RRM} = 600 \text{ V}$	—	—	50	μA
Reverse Recovery Time (Note)	t_{rr}	$I_F = 2 \text{ A}, di/dt = -20 \text{ A}/\mu\text{s}$	—	—	35	ns
Junction Capacitance	C_j	$V_R = 10 \text{ V}, f = 1.0 \text{ MHz}$	—	36	—	pF
Thermal Resistance	$R_{th(j-c)}$	DC Total	—	—	2.5	$^\circ\text{C}/\text{W}$

(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)			

