

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

## 10JL2CZ47A

SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER &amp; CHOPPER APPLICATION

Unit in mm

- 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.

## 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 (50 Hz)	A
Junction Temperature	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C
Screw Torque	—	0.6	N·m

JEDEC	—
EIAJ	—
TOSHIBA	12-10C1A

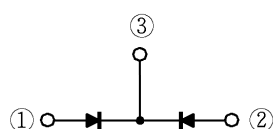
ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

Weight : 2.0 g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	$V_{FM}$	$I_{FM} = 5\text{ A}$	—	—	4.0	V
Repetitive Peak Reverse Current (Note 1)	$I_{RRM}$	$V_{RRM} = 600\text{ V}$	—	—	50	$\mu\text{A}$
Reverse Recovery Time (Note 1)	$t_{rr}$	$I_F = 2\text{ A}$ , $di/dt = -20\text{ A}/\mu\text{s}$	—	—	35	ns
Forward Recovery Time (Note 1)	$t_{fr}$	$I_F = 1\text{ A}$	—	—	150	ns
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	—	3.6	°C/W

(Note 1) A value of one cell.

## POLARITY



## MARKING



*1	MARK	10JL2CZ	TYPE	10JL2CZ47A
*2	A			
*3	Lot Number			
	<div> <div> <div></div> <div></div> </div> <div> <div>—Month (Starting from Alphabet A)</div> <div>—Year (Last Number of the Christian Era)</div> </div> </div>			

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