TOSHIBA 10JL2CZ47A

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

10JL2CZ47A

SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER & CHOPPER APPLICATION

Repetitive Peak Reverse Voltage $: V_{RRM} = 600 V$

Average Output Rectified Current : IO = 10 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	Α
Peak One Cycle Surge Forward Current (Non-Repetitive, Sine Wave)	I_{FSM}	40 (50 Hz)	A
Junction Temperature	T_{j}	-40~150	$^{\circ}\mathrm{C}$
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~150	$^{\circ}\mathrm{C}$
Screw Torque	_	0.6	N∙m

Unit in mm 10.3MAX Ø 3.2 ± 0.2 0.75±0.15 2.54±0.25 2.54±0.25 1. ANODE 2. ANODE CATHODE JEDEC **EIAJ** TOSHIBA 12-10C1A

Weight: 2.0 g

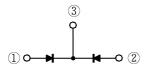
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

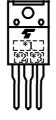
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note 1)	$V_{ extbf{FM}}$	$I_{FM} = 5 A$	l	_	4.0	V
Repetitive Peak Reverse Current (Note 1)	I_{RRM}	$V_{RRM} = 600 V$	_	_	50	μ A
Reverse Recovery Time (Note 1)	t_{rr}	$I_{\rm F} = 2 {\rm A}, {\rm di} / {\rm dt} = -20 {\rm A} / \mu {\rm s}$		_	35	ns
Forward Recovery Time (Note 1)	t_{fr}	$I_{\mathbf{F}} = 1 A$	_	_	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	10 JL2 CZ	TYPE	10JL2CZ47A				
*2	Α							
*3	Lot Number							

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