TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

10DL2C48A,10FL2C48A,U10DL2C48A,U10FL2C48A

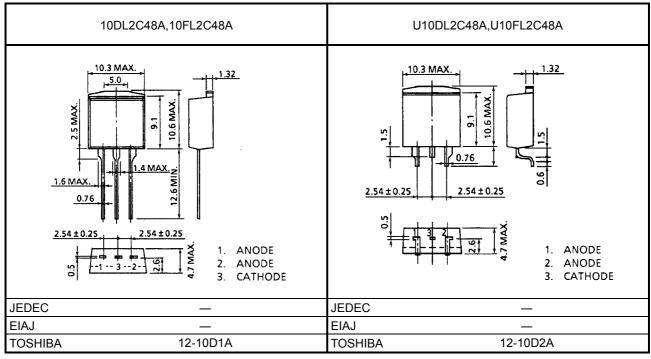
SWITCHING MODE POWER SUPPLY APPLICATION **CONVERTER & CHOPPER APPLICATION**

Repetitive Peak Reverse Voltage $V_{RRM}=200, 300V$

Average Output Rectified Current : IO=10A Ultra Fast Reverse-Recovery Time : trr=35ns Max.

Low Switching Losses and Output Noise.

Unit in mm



The information contained herein is subject to change without notice.

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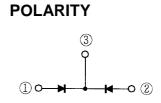
damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..

The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk. shall be made at the customer's own risk.

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MAXIMUM RATINGS

CHARACTE	RISTIC	SYMBOL	RATING	UNIT	
	10DL2C48A		200		
Repetitive Peak Reverse Voltage	U10DL2C48A	VRRM	200	V	
	10FL2C48A	VKKIMI	300	V	
	U10FL2C48A		300		
Average Output Rectified Current		IO	10	Α	
Peak One Cycle Surge Forward Current		Iron	50 (50Hz)	Α	
		IFSM	55 (60Hz)	A 	
Junction Temparature		Tj	-40~150	°C	
Storage Temparature	Range	T _{stg}	-40~150	°C	

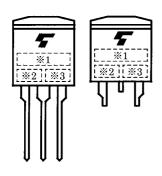


ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	10DL2C48A			_		0.98	- V
	U10DL2C48A	VFM	I _{FM} =5A				
	10FL2C48A	V FIVI		_		1.3	
	U10FL2C48A						
Repetitive Peak Reverse Current		I _{RRM}	V _{RRM} =Rated			10	μΑ
Reverse Recovery Time		t _{rr}	I _F =2A, di / dt=-20A / μs	_	_	35	ns
Forward Recovery Time		tfr	IF=1A			100	ns
Thermal Resistance		Rth (j-c)	DC Total, Junction to Case	_	_	2.5	°C/W

 V_{FM} , I_{RRM} , t_{rr} , t_{fr} : A Value of one cell.

MARKING



* 1	MARK	10DL2C	TYPE	10DL2C48A, U10DL2C48A		
		10FL2C	IIFL	10FL2C48A, U10FL2C48A		
* 2	Α					
* 3	Lot Number Month (Starting form Alphabet A) Year (Last Number of the Cristian Era)					

