

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

# 5DL2C48A, 5FL2C48A, U5DL2C48A, U5FL2C48A

SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM}=200, 300V$
- Average Output Rectified Current :  $I_O=5A$
- Ultra Fast Reverse-Recovery Time :  $t_{rr}=35ns$  (Max.)
- Low Switching Losses and Output Noise.

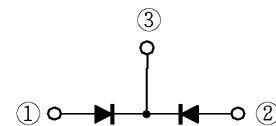
Unit in mm

5DL2C48A, 5FL2C48A		U5DL2C48A, U5FL2C48A	
<p>1. ANODE 2. ANODE 3. CATHODE</p>		<p>1. ANODE 2. ANODE 3. CATHODE</p>	
JEDEC	—	JEDEC	—
EIAJ	—	EIAJ	—
TOSHIBA	12-10D1A	TOSHIBA	12-10D2A

**MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT		
Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V		
		300			
		Average Output Rectified Current	$I_O$	5	A
		Peak One Cycle Surge Forward Current	$I_{FSM}$	25 (50Hz)	A
27.5 (60Hz)					
Junction Temperature	$T_j$	-40~150	°C		
Storage Temperature Range	$T_{stg}$	-40~150	°C		

**POLARITY**



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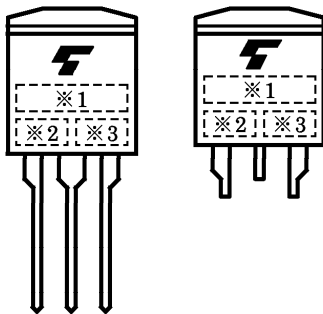
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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	TYP.	MAX.	UNIT
Peak Forward Voltage	5DL2C48A	V <sub>FM</sub>	I <sub>FM</sub> = 2.5A	—	0.98	V
	U5DL2C48A			—	1.3	
	5FL2C48A					
	U5FL2C48A					
Repetitive Peak Reverse Current		I <sub>RRM</sub>	V <sub>RRM</sub> = Rated	—	10	μA
Reverse Recovery Time		t <sub>rr</sub>	I <sub>F</sub> = 2A, di / dt = -20A / μs	—	35	ns
Forward Recovery Time		t <sub>fr</sub>	I <sub>F</sub> = 1A	—	100	ns
Thermal Resistance		R <sub>th(j-c)</sub>	DC Total, Junction to Case	—	3.5	°C / W

V<sub>FM</sub>, I<sub>RRM</sub>, t<sub>rr</sub>, t<sub>fr</sub> : A Value of one cell.

MARKING



※ 1	MARK	5DL2C	TYPE	5DL2C48A, U5DL2C48A
		5FL2C		5FL2C48A, U5FL2C48A
※ 2	A			
※ 3	Lot Number			
	<input type="checkbox"/> <input type="checkbox"/> — Month (Starting form Alphabet A) <input type="checkbox"/> — Year (Last Number of the Christian Era)			

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