

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

**20DL2C48A, U20DL2C48A, 20FL2C48A, U20FL2C48A**

SWITCHING TYPE POWER SUPPLY APPLICATION.

CONVERTER & CHOPPER APPLICATION.

- Repetitive Peak Reverse Voltage :  $V_{RRM}=200, 300V$
- Average Output Rectified Current :  $I_O=20A$
- Ultra Fast Reverse-Recovery Time :  $t_{rr}=35ns$  MAX.
- Low Switching Losses and Output Noise.

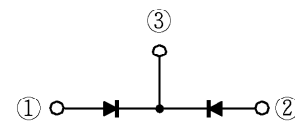
Unit in mm

20DL2C48A·20FL2C48A		U20DL2C48A·U20FL2C48A	
	<ol style="list-style-type: none"> <li>1. ANODE</li> <li>2. ANODE</li> <li>3. CATHODE</li> </ol>		<ol style="list-style-type: none"> <li>1. ANODE</li> <li>2. ANODE</li> <li>3. CATHODE</li> </ol>
JEDEC	—	JEDEC	—
EIAJ	—	EIAJ	—
TOSHIBA	12-10D1A	TOSHIBA	12-10D2A

**MAXIMUM RATINGS**

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	20DL2C48A	$V_{RRM}$	200	V
	U20DL2C48A		300	
	20FL2C48A			
	U20FL2C48A			
Average Output Rectified Current		$I_O$	20	A
Peak One Cycle Surge Forward Current			100 (50Hz)	A
			110 (60Hz)	
Junction Temperature		$T_j$	-40~150	°C
Storage Temperature Range		$T_{stg}$	-40~150	°C

**POLARITY**



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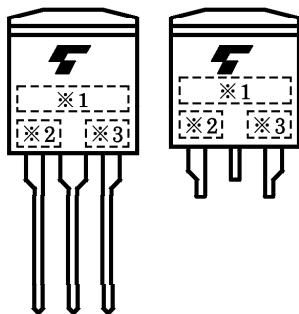
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**ELECTRICAL CHARACTERISTICS** (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	20DL2C48A	V <sub>FM</sub>	I <sub>FM</sub> = 10A	—	—	0.98	V
	U20DL2C48A						
	20FL2C48A			—	—	1.3	
	U20FL2C48A						
Repetitive Peak Reverse Current		I <sub>RRM</sub>	V <sub>RRM</sub> = Rated	—	—	50	μA
Reverse Recovery time		t <sub>rr</sub>	I <sub>F</sub> = 2A, di / dt = -50A / 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	—	—	1.6	°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	20DL2C	TYPE	20DL2C48A, U20DL2C48A
		20FL2C		20FL2C48A, U20FL2C48A
※2	A			
※3	Lot Number			
	<input type="checkbox"/> <input type="checkbox"/> — Month (Starting from Alphabet A) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> — Year (Last Number of the Cristian Era)			

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