

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.

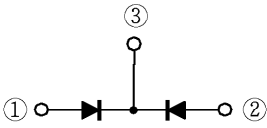
Unit in mm

5DL2C48A, 5FL2C48A		U5DL2C48A, U5FL2C48A	
JEDEC	—	JEDEC	—
EIAJ	—	EIAJ	—
TOSHIBA	12-10D1A	TOSHIBA	12-10D2A

MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	5DL2C48A	V _{RRM}	200	V
	U5DL2C48A			
	5FL2C48A		300	
	U5FL2C48A			
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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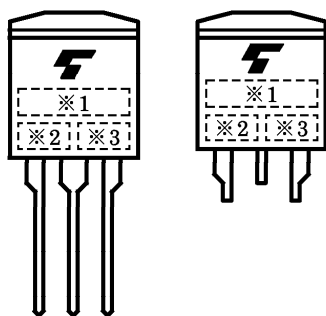
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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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

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

MARKING



※ 1	MARK	5DL2C	TYPE	5DL2C48A, U5DL2C48A
		5FL2C		5FL2C48A, U5FL2C48A
※ 2	A			
※ 3	Lot Number — Month (Starting form Alphabet A) — Year (Last Number of the Christian Era)			

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