

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

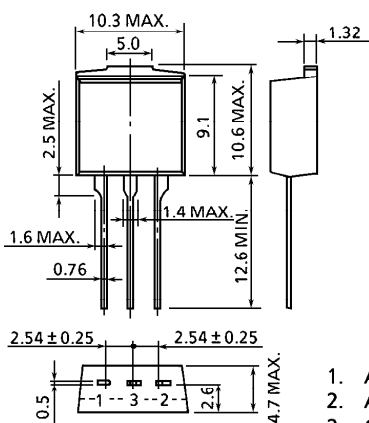
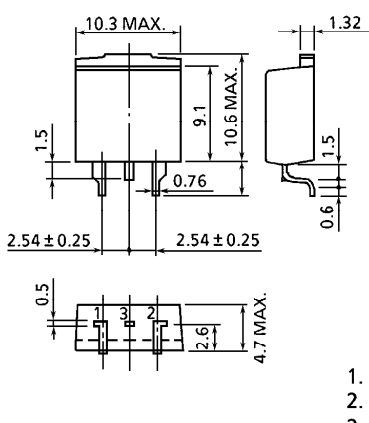
20DL2C48A, U20DL2C48A, 20FL2C48A, U20FL2C48A

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.

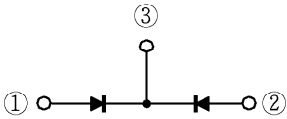
Unit in mm

20DL2C48A·20FL2C48A	U20DL2C48A·U20FL2C48A
	
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			
	20FL2C48A			
	U20FL2C48A			
Average Output Rectified Current		I _O	20	A
Peak One Cycle Surge Forward Current		I _{FSM}	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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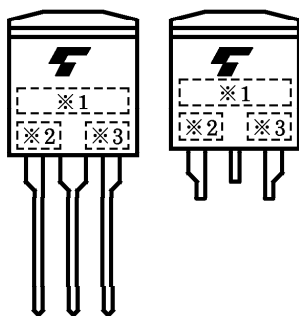
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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	20DL2C48A	V _{FM}	I _{FM} = 10A	—	—	0.98	V
	U20DL2C48A						
	20FL2C48A						
	U20FL2C48A			—	—	1.3	
Repetitive Peak Reverse Current		I _{RRM}	V _{RRM} = Rated	—	—	50	μA
Reverse Recovery time		t _{rr}	I _F = 2A, di / dt = −50A / μs	—	—	35	ns
Forward Recovery time		t _{fr}	I _F = 1A	—	—	100	ns
Thermal Resistance		R _{th(j-c)}	DC Total	—	—	1.6	°C / W

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

MARKING



※1	MARK	20DL2C 20FL2C	TYPE	20DL2C48A, U20DL2C48A 20FL2C48A, U20FL2C48A
※2	A			
※3	Lot Number □□—Month (Starting from Alphabet A) —Year (Last Number of the Cristian Era)			

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