

**TOSHIBA**

**U20GL2C48A**

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

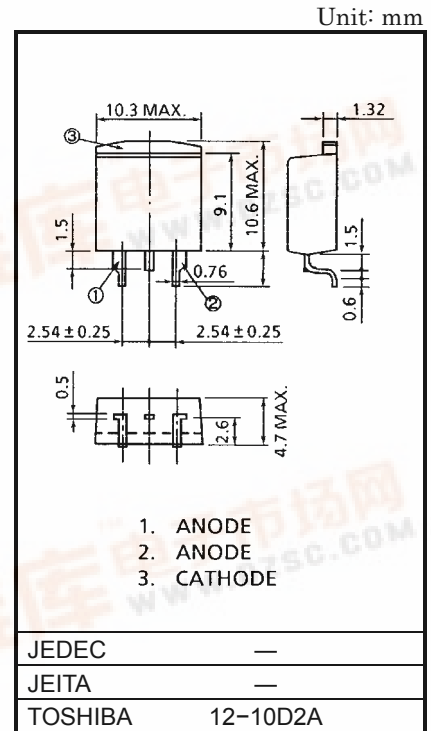
# U20GL2C48A

SWITCHING MODE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 400V$
- Average Output Rectified Current :  $I_O = 20A$
- Ultra Fast Reverse-Recovery Time :  $t_{rr} = 35ns$  (Max)
- Low Switching Losses and Output Noise.

## MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	V
Average Output Rectified Current	$I_O$	20	A
Peak One Cycle Surge Forward Current (Sin Wave)	$I_{FSM}$	100 (50Hz) 110 (60Hz)	A
Junction Temperature	$T_j$	-40~150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~150	$^\circ C$

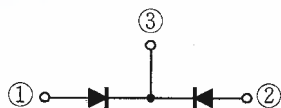


## ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

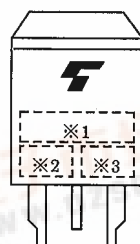
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 10A$	—	—	1.8	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = 400V$	—	—	50	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = 2A, di/dt = -50A/\mu s$	—	—	35	ns
Forward Recovery Time	$t_{fr}$	$I_F = 1A$	—	—	100	ns
Thermal Resistance	$R_{th(j-c)}$	DC Total, Junction to Case	—	—	1.6	$^\circ C/W$

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

## POLARITY



## MARKING



* 1	MARK	20GL2C
* 2	A	
* 3	Lot Number □ □ -Month (Starting from Alphabet A) — Year (Last Number of the Christian Era)	

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000707EAA

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