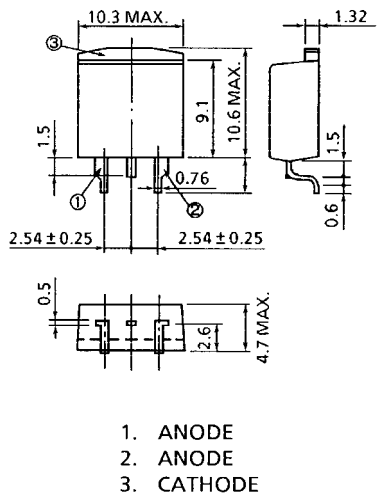
TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

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.

Unit: mm



JEDEC	—
JEITA	—
TOSHIBA	12−10D2A

MAXIMUM RATINGS (Ta = 25°C)

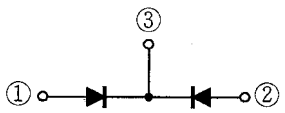
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Average Output Rectified Current	I_O	20	A
Peak One Cycle Surge Forward Current (Sin Wave)	I_{FSM}	100 (50Hz)	A
		110 (60Hz)	
Junction Temperature	T_j	−40~150	°C
Storage Temperature Range	T_{stg}	−40~150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

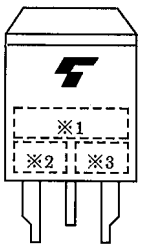
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 10A	—	—	1.8	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = 400V	—	—	50	μA
Reverse Recovery Time	t_{rr}	I_F = 2A, di / dt = −50A / μs	—	—	35	ns
Forward Recovery Time	t_{fr}	I_F = 1A	—	—	100	ns
Thermal Resistance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