

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED)   SILICON EPITAXIAL TYPE

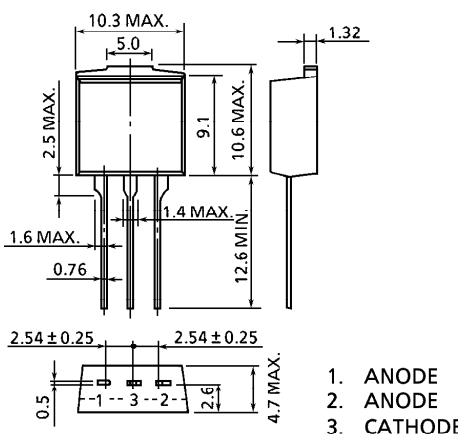
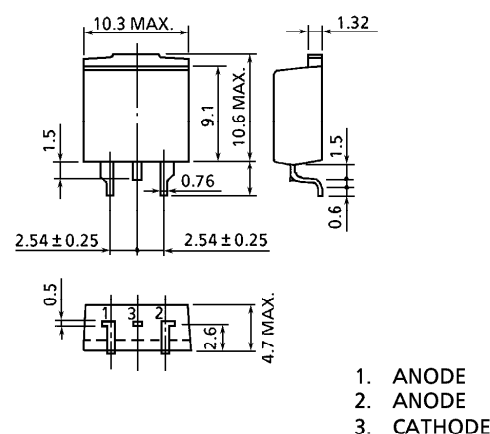
# 20DL2C48A, U20DL2C48A, 20FL2C48A, U20FL2C48A

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.

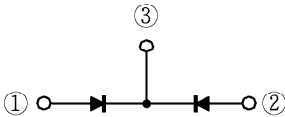
Unit in mm

| 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  |           | 300        |      |
|                                      | 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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● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.



