**TOSHIBA 5TUZ47** 

## TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

# 5 T U Z 4 7

HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY, COLOR TV (DAMPER-diode)

Repetitive Peak Reverse Voltage :  $V_{RRM} = 1500 V$ 

Average Forward Current  $: I_{F(AV)} = 5 A$ 

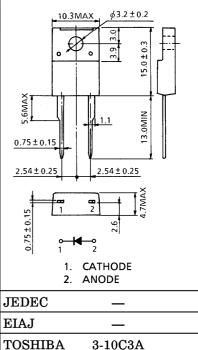
Reverse-Recovery Time :  $t_{rr} = 0.6 \,\mu s$ 

High Reliability

#### MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC                      | SYMBOL              | RATING     | UNIT |  |
|-------------------------------------|---------------------|------------|------|--|
| Repetitive Peak Reverse Voltage     | $V_{RRM}$           | 1500       | V    |  |
| Average Forward Current (Tc = 95°C) | I <sub>F (AV)</sub> | 5          | A    |  |
| Peak One Cycle Surge Forward        | Tagas               | 50 (50 Hz) | A    |  |
| Current (Non-Repetitive)            | IFSM                | 60 (60 Hz) |      |  |
| Junction Temperature                | $T_j$               | -40~150    | °C   |  |
| Storage Temperature Range           | $T_{ m stg}$        | -40~150    | °C   |  |

Unit in mm

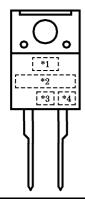


Weight: 2.0 g (Typ.)

#### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC                     | SYMBOL                | TEST CONDITION                             | MIN. | TYP. | MAX. | UNIT           |
|------------------------------------|-----------------------|--|------|------|------|----------------|
| Peak Forward Voltage               | $V_{	extbf{FM}}$      | $I_{\text{FM}} = 5 \text{ A}$              | _    | _    | 1.8  | V              |
| Repetitive Peak Reverse<br>Current | $I_{RRM}$             | $V_{RRM} = 1500 V$                         | _    | _    | 50   | $\mu$ <b>A</b> |
| Reverse Recovery Time              | t <sub>rr</sub>       | $I_F = 0.1 \text{ A}, I_R = 0.1 \text{ A}$ | _    | _    | 0.6  | μs             |
| Thermal Resistance                 | R <sub>th (j-c)</sub> | DC   | _    | _    | 4.0  | °C/W           |

### **MARKING**



| *NUMBER | SYMBOL  | MARK  |  |  |
|---------|---|---|--|--|
| *1      | Toshiba Product Mark  | <b>5</b>  |  |  |
| *2      | TYPE  | 5TUZ47  |  |  |
| *3      | Polarity Mark   | <b>-</b> ₩-   |  |  |
| *4      | Lot Number  Month (Starting from Alphabet A)  Year (Last Number of the Christian Era) | Example 6A: January 1996 6B: Febrary 1996 6L: December 1996 |  |  |

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