

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

5TUZ47

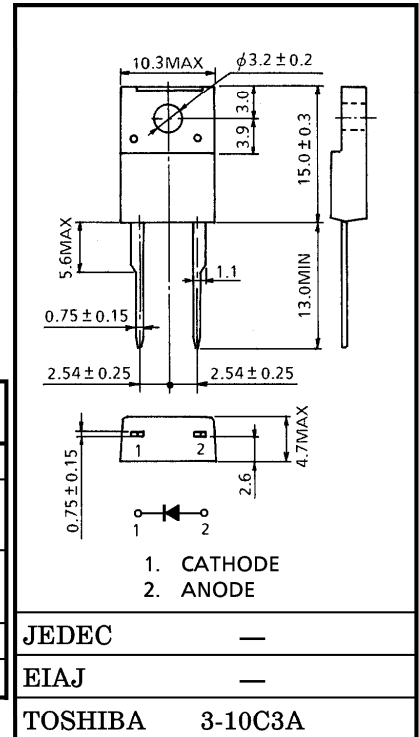
HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY,
COLOR TV (DAMPER-diode)

Unit in mm

- Repetitive Peak Reverse Voltage : $V_{RRM} = 1500\text{ V}$
- Average Forward Current : $I_F (AV) = 5\text{ A}$
- Reverse-Recovery Time : $t_{rr} = 0.6\ \mu\text{s}$
- High Reliability

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|----------------------------------------------------------|------------|--------------------------|------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 1500 | V |
| Average Forward Current ($T_c = 95^\circ\text{C}$) | $I_F (AV)$ | 5 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | I_{FSM} | 50 (50 Hz) 60 (60 Hz) | A |
| Junction Temperature | T_j | -40~150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -40~150 | $^\circ\text{C}$ |

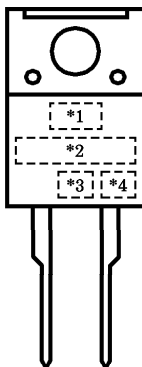


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Weight : 2.0 g (Typ.)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|------------------------------------|---------------|------------------------------------------|------|------|------|--------------------|
| Peak Forward Voltage | V_{FM} | $I_{FM} = 5\text{ A}$ | — | — | 1.8 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM} = 1500\text{ V}$ | — | — | 50 | μA |
| Reverse Recovery Time | t_{rr} | $I_F = 0.1\text{ A}, I_R = 0.1\text{ A}$ | — | — | 0.6 | μs |
| Thermal Resistance | $R_{th(j-c)}$ | DC | — | — | 4.0 | $^\circ\text{C/W}$ |

MARKING



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

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