

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

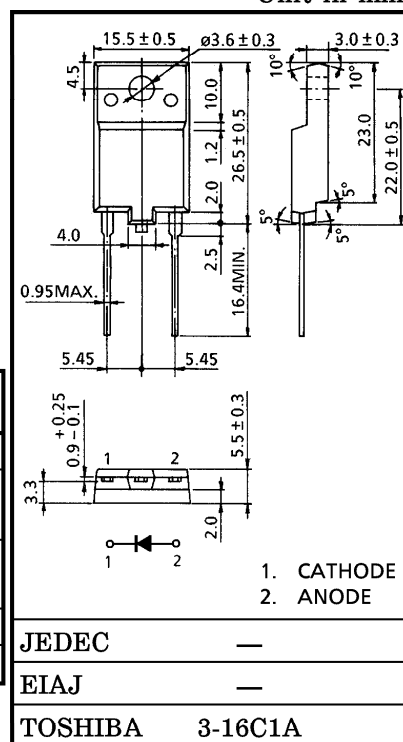
**5VUZ52**HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY,  
COLOR TV (DAMPER-diode)

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 1700\text{ V}$
- Average Forward Current :  $I_F(\text{AV}) = 5\text{ A}$
- Reverse-Recovery Time :  $t_{rr} = 0.6\text{ }\mu\text{s}$
- High Reliability

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

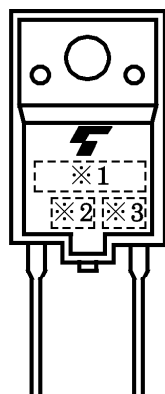
| CHARACTERISTIC   | SYMBOL           | RATING        | UNIT             |
|--|------------------|---------------|------------------|
| Repetitive Peak Reverse Voltage                          | $V_{RRM}$        | 1700          | V                |
| Average Forward Current<br>( $T_c = 115^\circ\text{C}$ ) | $I_F(\text{AV})$ | 5             | A                |
| Peak One Cycle Surge Forward<br>Current (Non-Repetitive) | $I_{FSM}$        | 50 (50 Hz)    | A                |
| Junction Temperature                                     | $T_j$            | $-40\sim 150$ | $^\circ\text{C}$ |
| Storage Temperature Range                                | $T_{stg}$        | $-40\sim 150$ | $^\circ\text{C}$ |

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

Weight : 5.5 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<br>Current | $I_{RRM}$     | $V_{RRM} = 1700\text{ V}$                | —    | —    | 50   | $\mu\text{A}$      |
| Reverse Recovery Time              | $t_{rr}$      | $I_F = 0.1\text{ A}, I_R = 0.1\text{ A}$ | —    | —    | 0.6  | $\mu\text{s}$      |
| Thermal Resistance                 | $R_{th(j-c)}$ | DC                                       | —    | —    | 2.5  | $^\circ\text{C/W}$ |

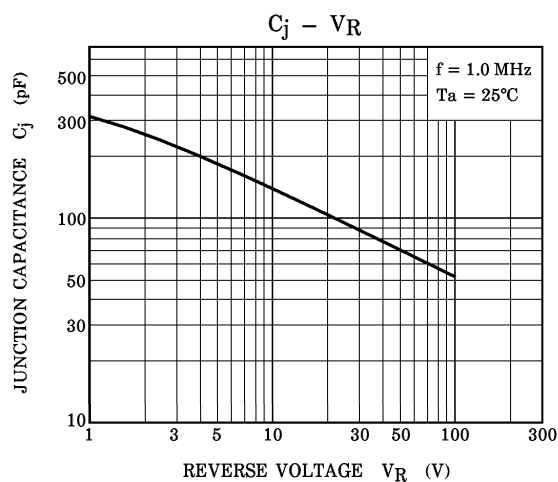
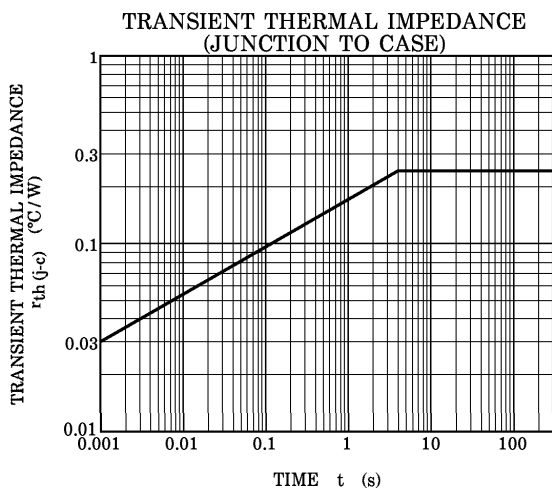
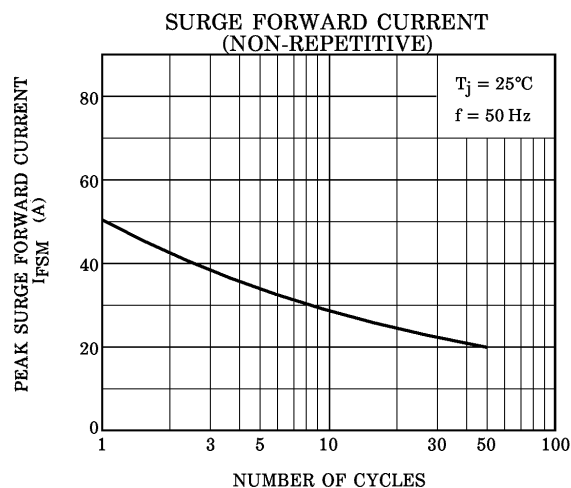
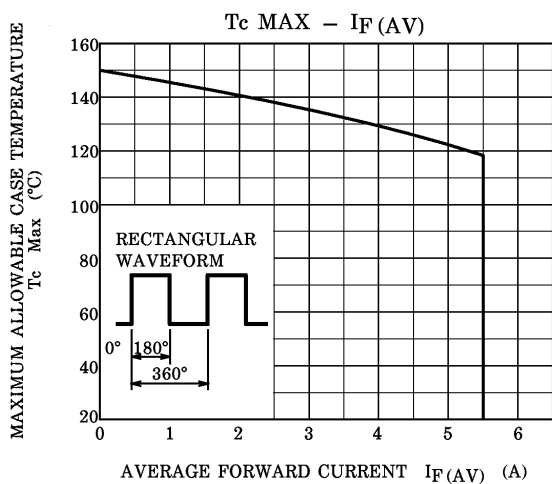
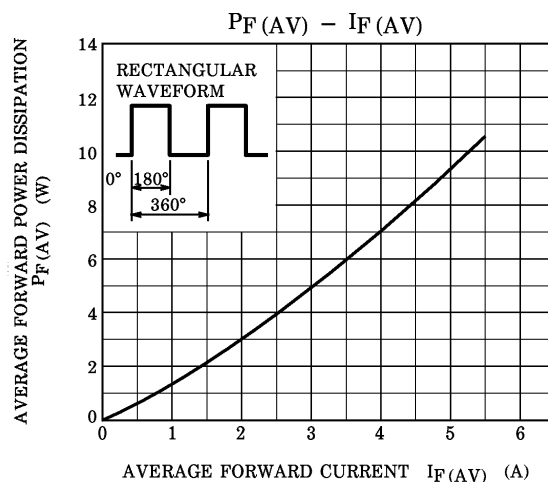
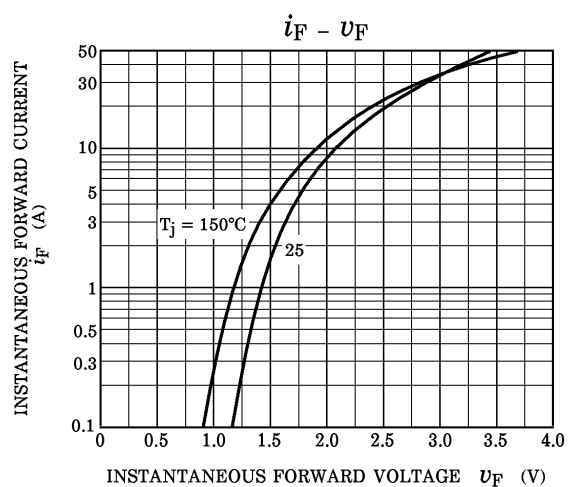
MARKING



| ※NUMBER | SYMBOL  | MARK   |
|---------|---|--|
| ※1      | Toshiba Product Mark  |  |
| ※2      | TYPE  | 5VUZ52   |
| ※3      | Polarity Mark   |  |
| ※4      | Lot Number<br><div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="margin-right: 5px;">Month</div> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div>(Starting from Alphabet A)</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="margin-right: 5px;">Year</div> <div>(Last Number of the Christian Era)</div> </div> | Example<br>6A : January 1996<br>6B : February 1996<br>6L : December 1996 |

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