

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

## 5TUZ52C

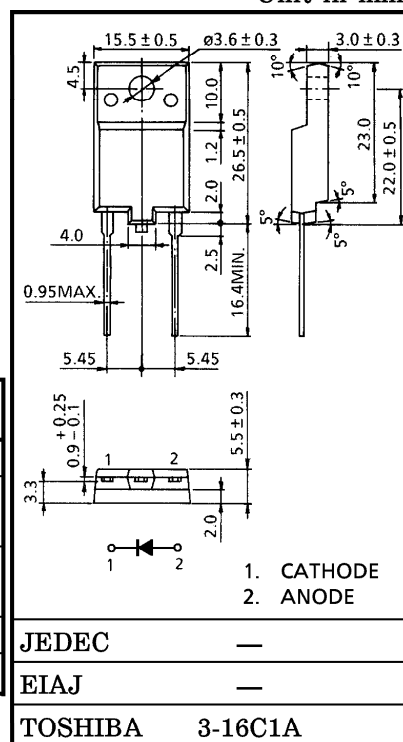
HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY,  
COLOR TV (DAMPER-diode)

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 1500\text{ V}$
- Average Forward Current :  $I_F (AV) = 5\text{ A}$
- Reverse-Recovery Time :  $t_{rr} = 1.0\text{ }\mu\text{s}$
- 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<br>( $T_c = 120^\circ\text{C}$ ) | $I_F (AV)$ | 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                                | $T_{stg}$  | $-40 \sim 150$ | $^\circ\text{C}$ |

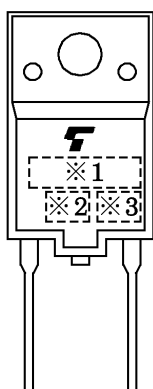


Weight : 5.5 g (Typ.)

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

| 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 | $I_{RRM}$     | $V_{RRM} = 1500\text{ V}$                   | —    | —    | 50   | $\mu\text{A}$      |
| Reverse Recovery Time              | $t_{rr}$      | $I_F = 0.1\text{ A}$ , $I_R = 0.1\text{ A}$ | —    | —    | 1.0  | $\mu\text{s}$      |
| Thermal Resistance                 | $R_{th(j-c)}$ | DC                                          | —    | —    | 2.5  | $^\circ\text{C/W}$ |

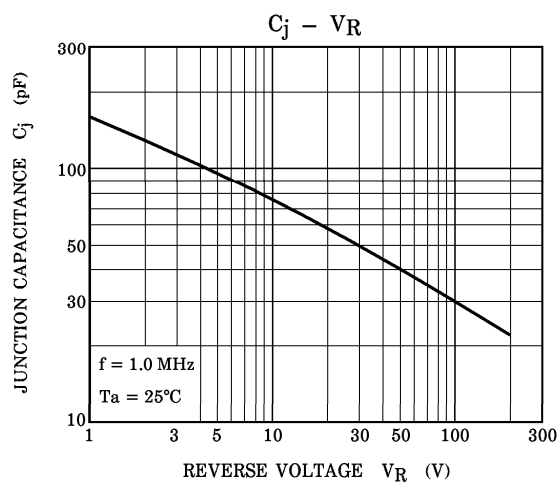
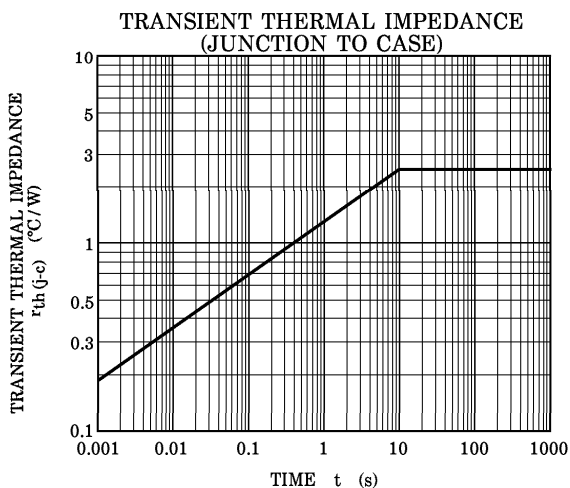
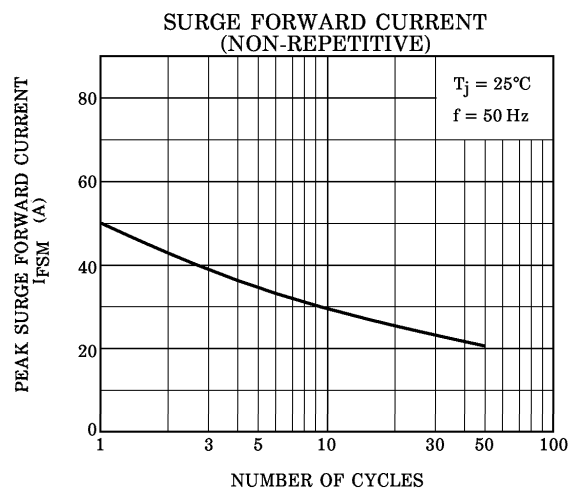
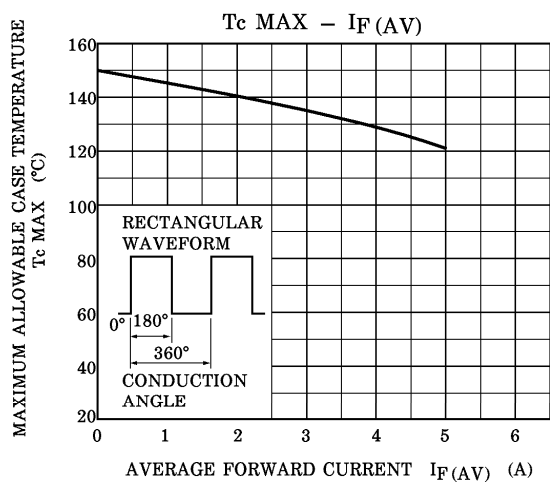
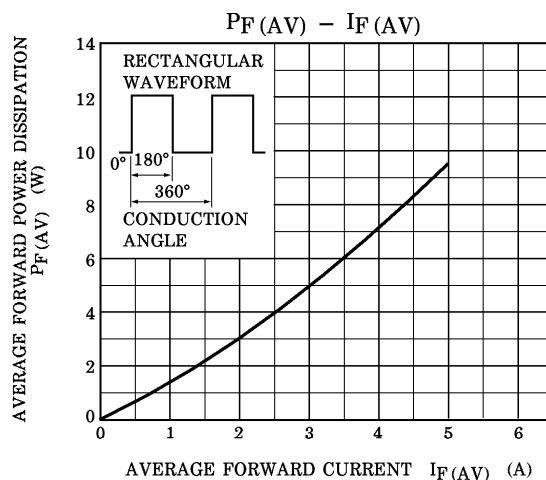
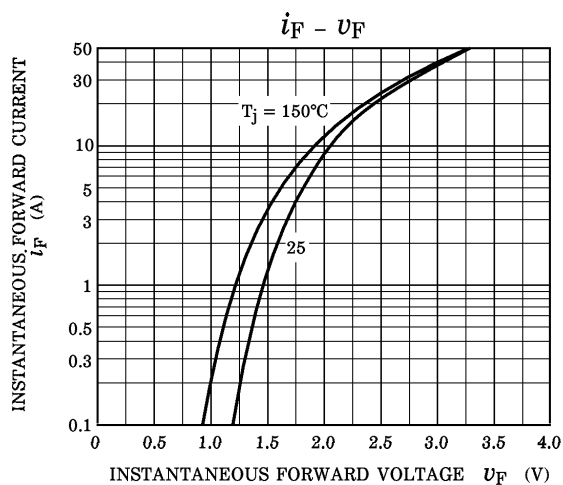
MARKING



|    |                                                                                                 |         |
|----|-------------------------------------------------------------------------------------------------|---------|
| ※1 | TYPE                                                                                            | 5TUZ52C |
| ※2 | Polarity Mark                                                                                   | —◀—     |
| ※3 | Lot Number<br>□□ -Month (Starting from Alphabet A)<br>— Year (Last Number of the Christian Era) |         |

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