

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

# 3TH41

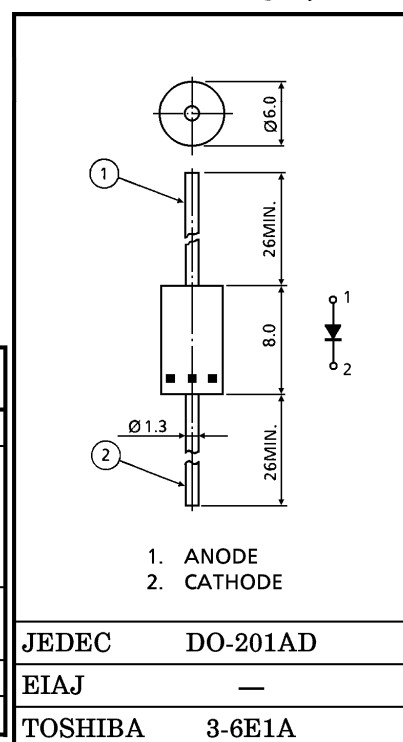
HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY,  
COLOR TV (DAMPER-diode)

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 1500 \text{ V}$
- Average Forward Current :  $I_F (AV) = 3 \text{ A}$
- Reverse-Recovery Time :  $t_{rr} = 1.5 \mu\text{s} (\text{Max.})$

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

| CHARACTERISTIC                                        |                | SYMBOL              | RATING     | UNIT |
|-------------------------------------------------------|----------------|---------------------|------------|------|
| Repetitive Peak Reverse Voltage                       |                | V <sub>RRM</sub>    | 1500       | V    |
| Average Forward Current                               | With Heat Sink | I <sub>F</sub> (AV) | 3 A        | A    |
|                                                       | No Heat Sink   |                     | 2.5 A      |      |
| Peak One Cycle Surge Forward Current (Non-Repetitive) |                | I <sub>FSM</sub>    | 50 (50 Hz) | A    |
|                                                       |                |                     | 55 (60 Hz) |      |
| Junction Temperature                                  |                | T <sub>j</sub>      | −40~150    | °C   |
| Storage Temperature Range                             |                | T <sub>stg</sub>    | −40~150    | °C   |

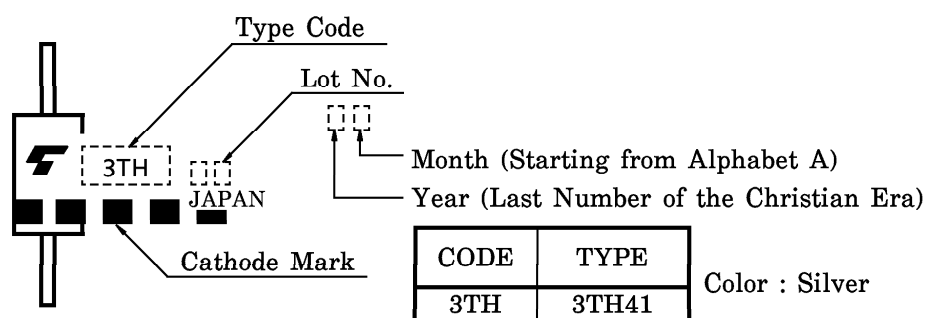


Weight : 1.18 g (Typ.)

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

| CHARACTERISTIC                  | SYMBOL        | TEST CONDITION                             | MIN. | TYP. | MAX. | UNIT               |
|---------------------------------|---------------|--------------------------------------------|------|------|------|--------------------|
| Peak Forward Voltage            | $V_{FM}$      | $I_{FM} = 3 \text{ A}$                     | —    | —    | 1.2  | V                  |
| Repetitive Peak Reverse Current | $I_{RRM}$     | $V_{RRM} = 1500 \text{ V}$                 | —    | —    | 10   | $\mu\text{A}$      |
| Reverse Recovery Time           | $t_{rr}$      | $I_F = 1.0 \text{ A}, I_R = 1.0 \text{ A}$ | —    | —    | 1.5  | $\mu\text{s}$      |
| Thermal Resistance              | $R_{th(j-a)}$ | Junction to Ambient                        | —    | —    | 38   | $^\circ\text{C/W}$ |

MARKING



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