

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

5TUZ52

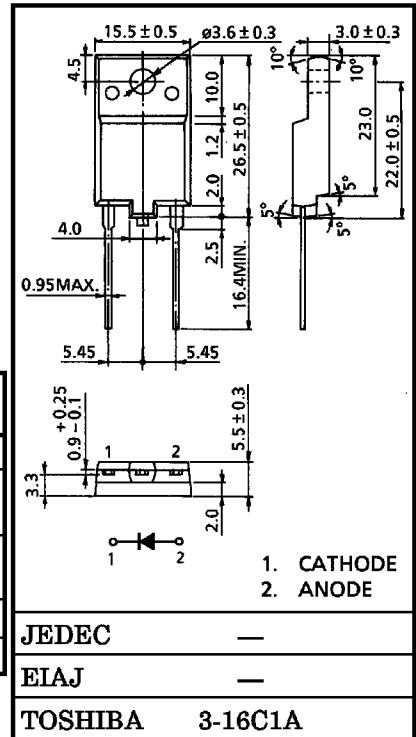
HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY,
COLOR TV (DAMPER-diode)

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 ($T_c = 120^\circ\text{C}$)	$I_F (AV)$	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50 Hz)	A
Junction Temperature	T_j	-40~150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40~150	$^\circ\text{C}$

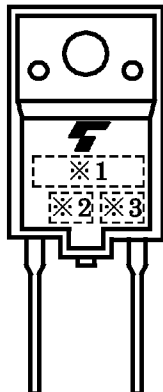


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Weight : 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 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	—	—	2.5	$^\circ\text{C/W}$

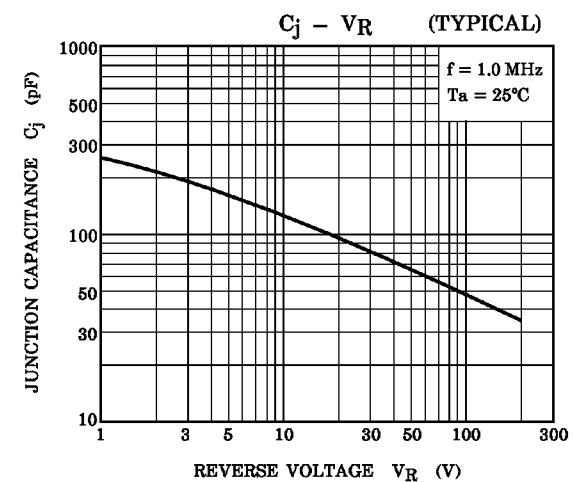
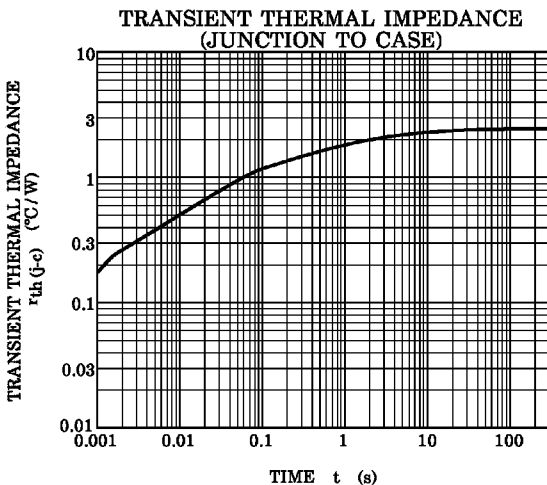
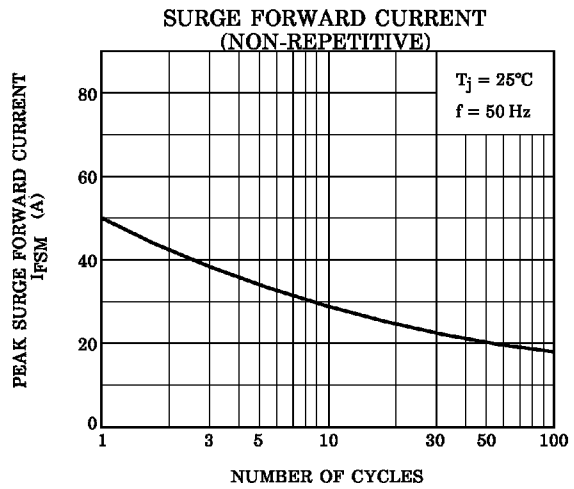
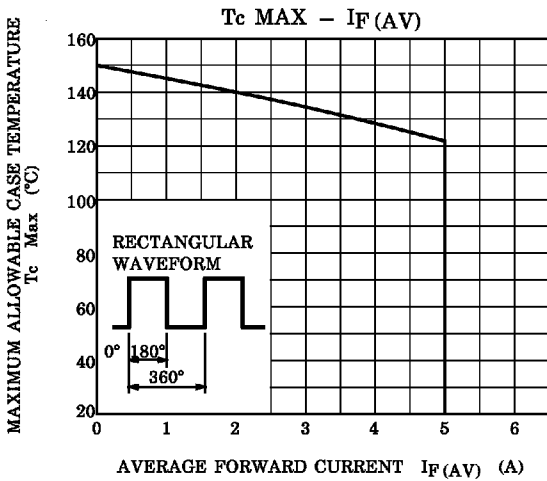
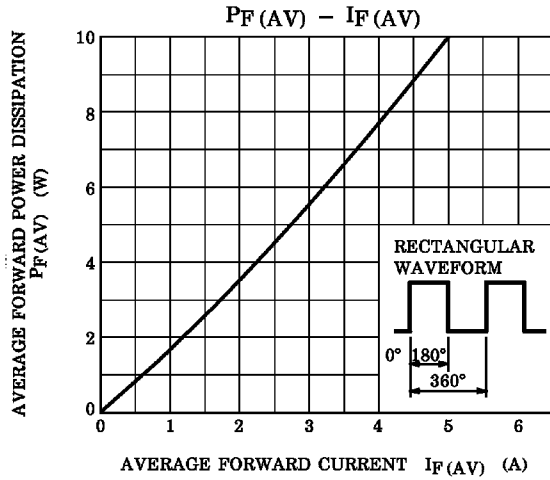
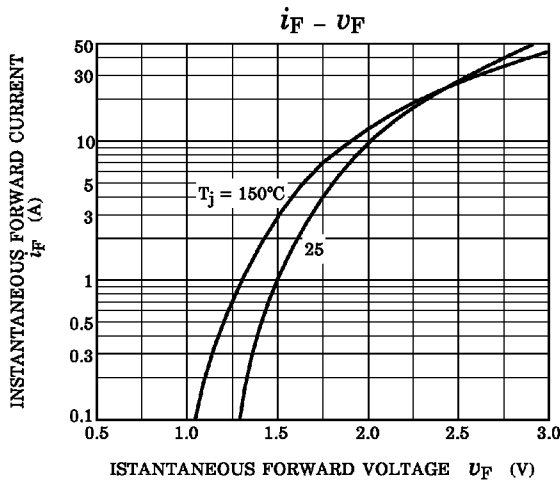
MARKING



※NUMBER	SYMBOL	MARK
※1	TOSHIBA Product Mark	
※2	TYPE	5TUZ52
※3	Polarity Mark	
※4	Lot Number <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px; margin-right: 5px;"></div> <div style="margin-left: 5px;"> Month (Starting from Alphabet A) </div> </div> <div style="margin-left: 20px;"> Year (Last Number of the Christian Era) </div>	Example 6A : January 1996 6B : February 1996 6L : December 1996

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● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.



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