

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

# 5TUZ47

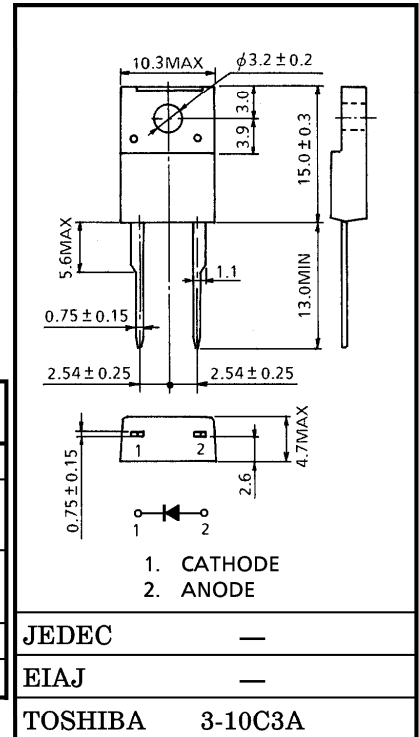
HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY,  
COLOR TV (DAMPER-diode)

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	$^\circ\text{C}$

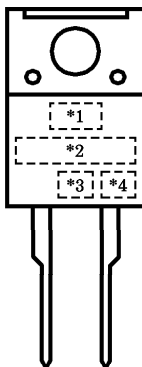


ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

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	$\mu\text{A}$
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	—	—	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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