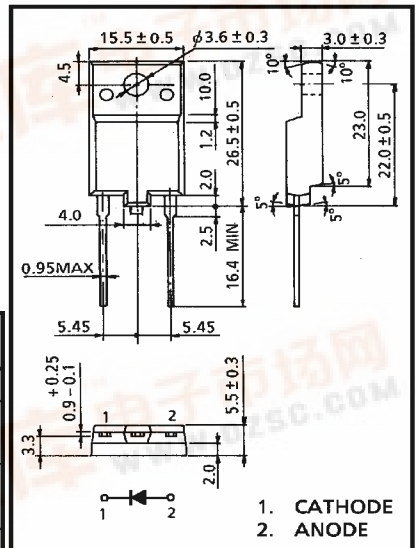
TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

5THZ52

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

Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	3-16C1A

Weight : 5.5 g (Typ.)

- Repetitive Peak Reverse Voltage : V_{RRM} = 1500 V
- Average Forward Current : $I_{F(AV)}$ = 5 A
- Reverse-Recovery Time : t_{rr} = 1.5 μs (Max.)
- High Reliability

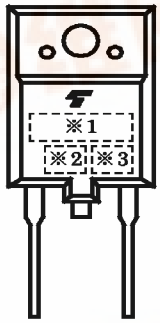
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1500	V
Average Forward Current (Tc = 125°C)	$I_{F(AV)}$	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50 Hz)	A
		60 (60 Hz)	
Junction Temperature	T_j	−40~150	°C
Storage Temperature Range	T_{stg}	−40~150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM} = 5 A	—	—	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = 1500 V	—	—	50	μA
Reverse Recovery Time	t_{rr}	I_F = 0.1 A, I_{DC} = 0.1 A	—	—	1.5	μs
Thermal Resistance	$R_{th(j-c)}$	DC	—	—	2.5	°C / W

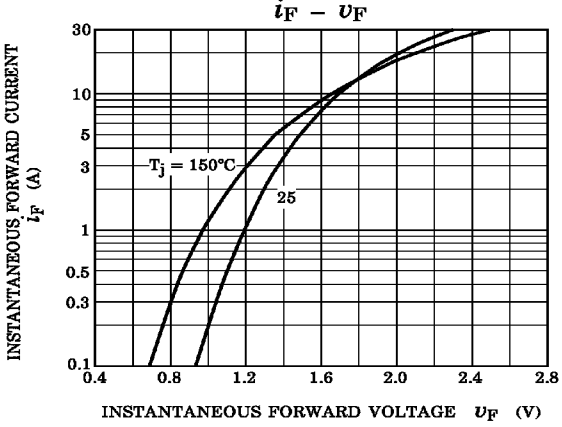
MARKING



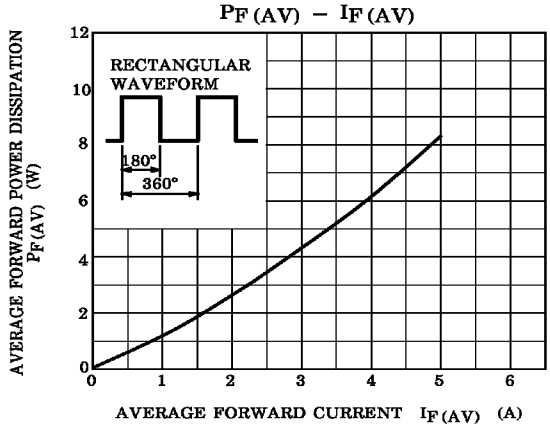
※1	TYPE	5THZ52
※2	Polarity Mark	⊣◀
※3	Lot Number □□—Month (Starting from Alphabet A) └—Year (Last Number of the Christian Era)	

961001EAA2

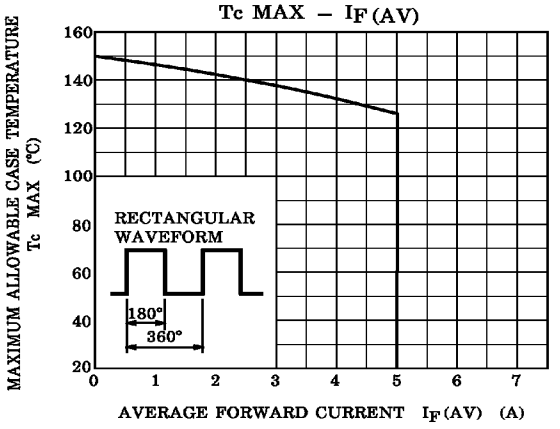
$i_F - v_F$



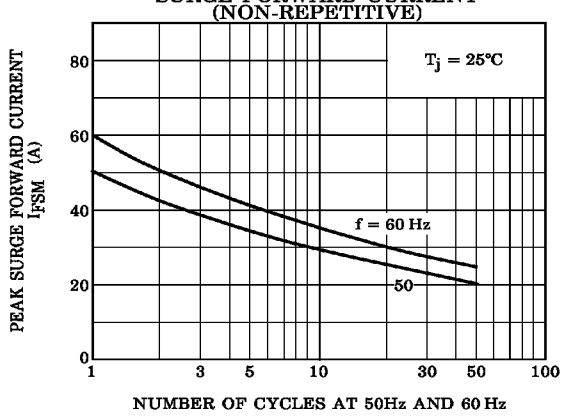
$P_{F(AV)} - I_{F(AV)}$



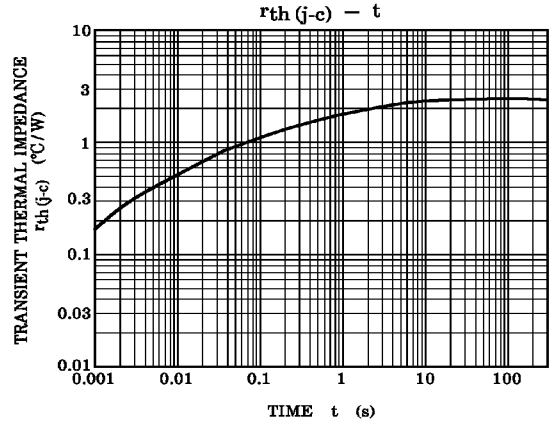
T_C MAX $- I_{F(AV)}$



SURGE FORWARD CURRENT (NON-REPETITIVE)



$r_{th\,(j\text{-}c)} - t$



$C_j - V_R$ (TYPICAL)