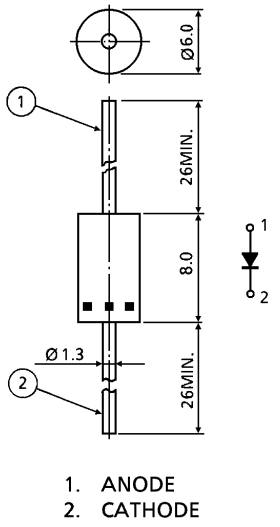
TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

3TH41

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

Unit in mm

- Repetitive Peak Reverse Voltage : V_{RRM} = 1500 V
- Average Forward Current : $I_{F(AV)}$ = 3 A
- Reverse-Recovery Time : t_{rr} = 1.5 μs (Max.)



JEDEC	DO-201AD
EIAJ	—
TOSHIBA	3-6E1A

Weight : 1.18 g (Typ.)

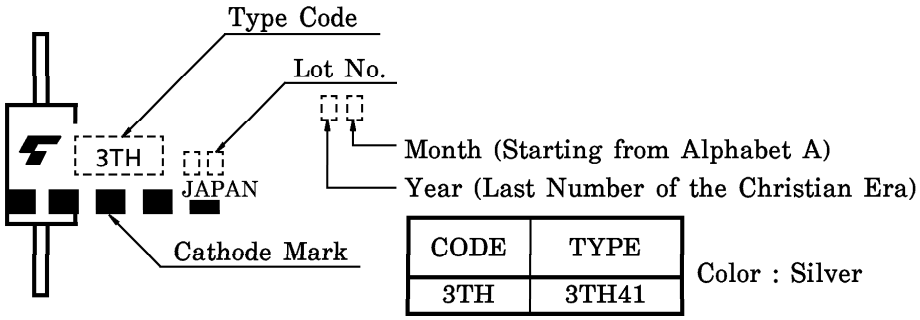
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage		V_{RRM}	1500	V
Average Forward Current	With Heat Sink	$I_{F(AV)}$	3 A	A
	No Heat Sink		2.5 A	
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	50 (50 Hz)	A
			55 (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} = 3 A	—	—	1.2	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} = 1500 V	—	—	10	μA
Reverse Recovery Time	t_{rr}	I_F = 1.0 A, I_R = 1.0 A	—	—	1.5	μs
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	—	38	°C / W

MARKING



CODE	TYPE
3TH	3TH41

Color : Silver

961001EAA2

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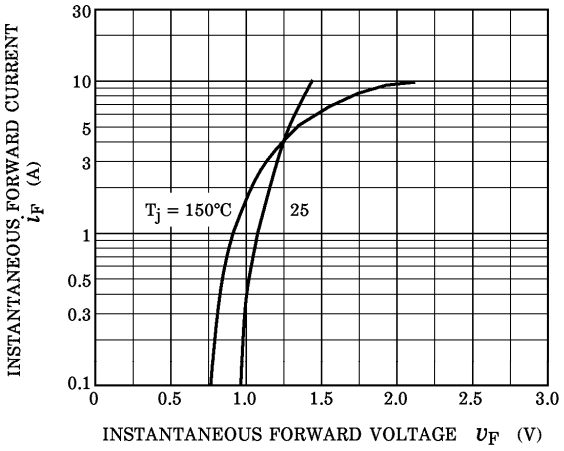
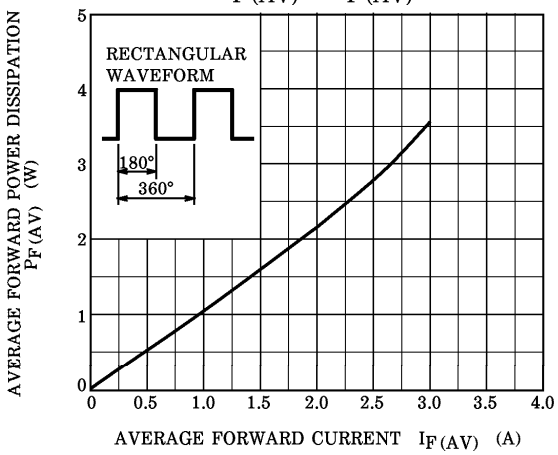
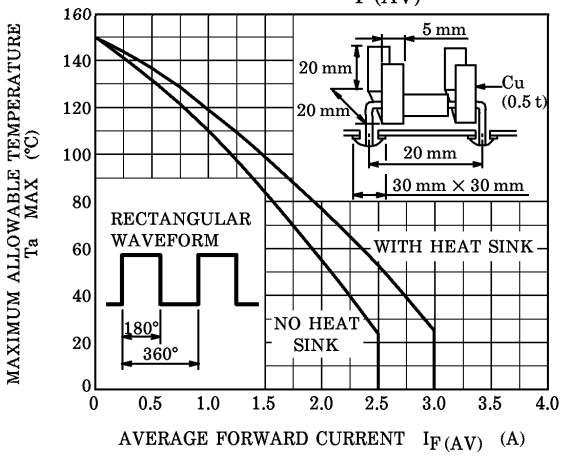
$i_F - v_F$



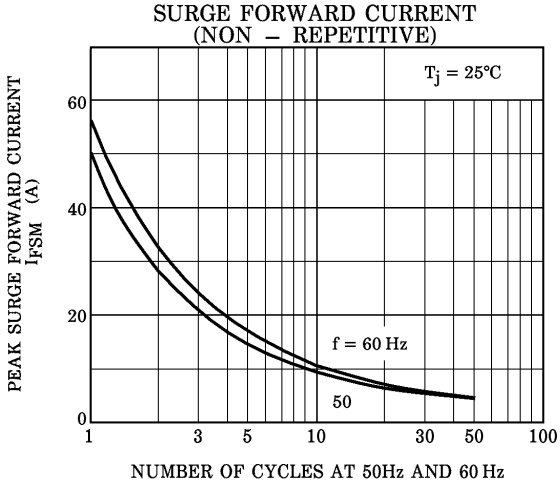
$P_{F(AV)} - I_{F(AV)}$



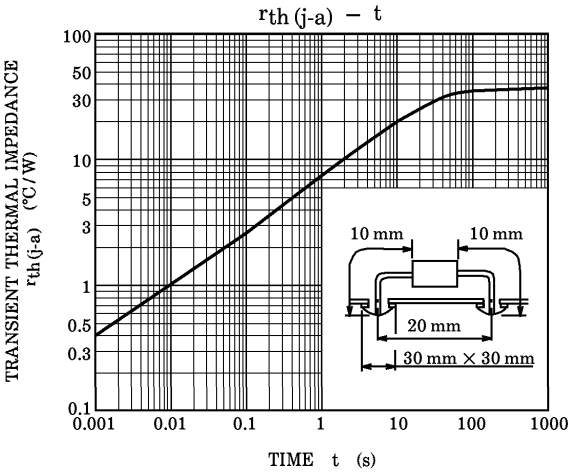
Ta MAX – $I_{F(AV)}$



SURGE FORWARD CURRENT (NON – REPETITIVE)



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



$C_j - V_R$ (TYPICAL)