

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

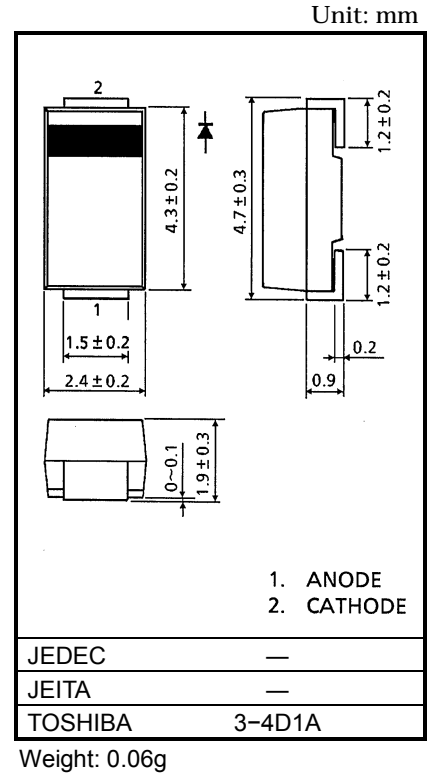
U05NH44,U05TH44

HIGH SPEED RECTIFIER APPLICATIONS
(FAST RECOVERY)

- Repetitive Peak Reverse Voltage : $V_{RRM} = 1000, 1500V$
- Average Forward Current : $I_F (AV) = 0.5A$
- Reverse Recovery Time : $t_{rr} = 4\mu s$
- Surface Mounting Plastic Mold Package

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

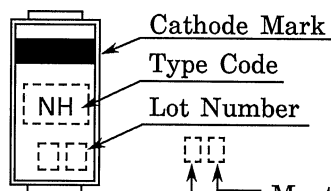
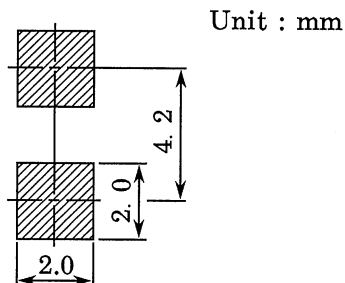
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	U05NH44	V_{RRM}	1000
	U05TH44		1500
Average Forward Current	$I_F (AV)$	0.5	A
I^2t Limit Value ($t = 1\sim 10ms$)	I^2t	2	A^2s
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	20 (50Hz)	A
Junction Temperature Range	T_j	$-40\sim 125$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40\sim 125$	$^\circ C$



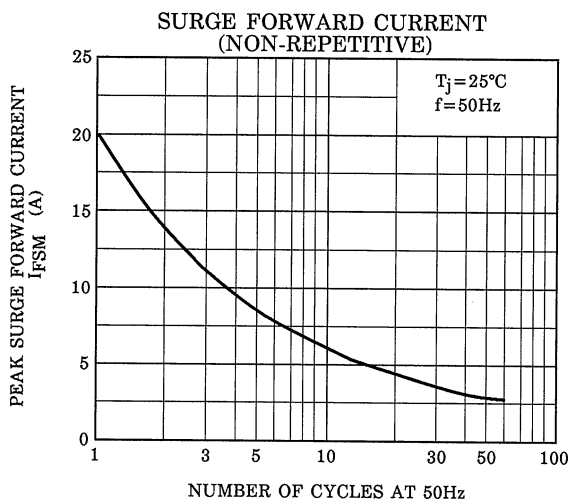
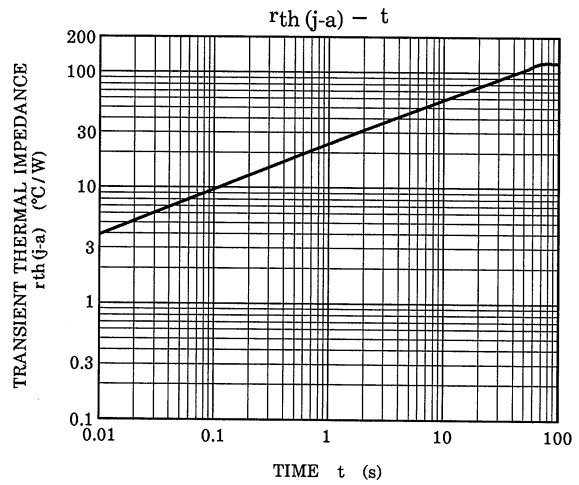
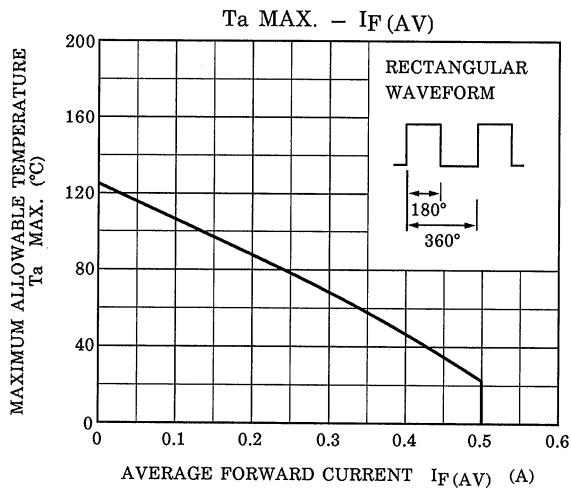
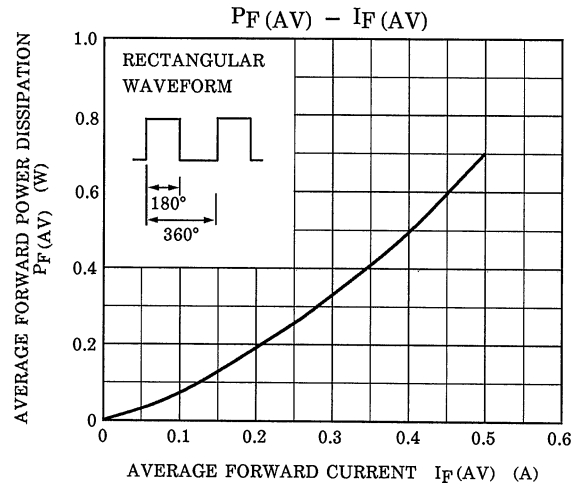
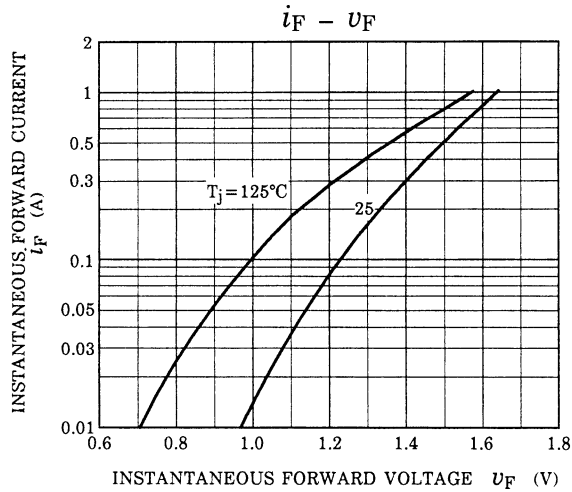
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 0.5A$	—	—	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Reverse Recovery Time	t_{rr}	$I_F = 20mA, I_R = 1mA$	—	—	4	μs

STANDARD SOLDERING PAD MARKING



CODE	TYPE
NH	U05NH44
TH	U05TH44



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000707EAA

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