

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

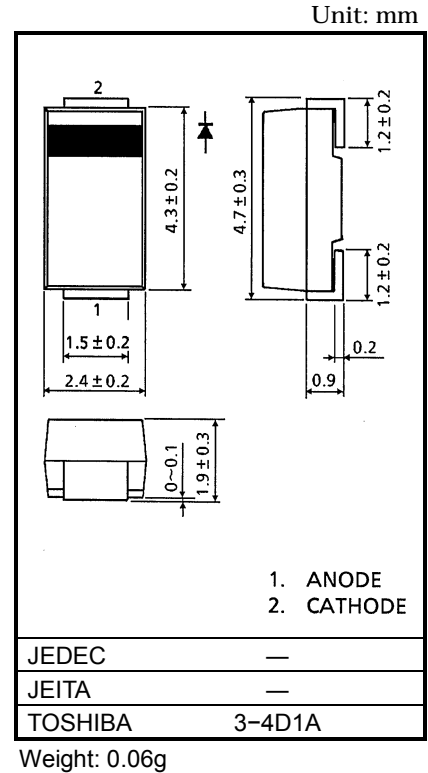
U05NH44,U05TH44

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 ($T_a = 25^\circ C$)

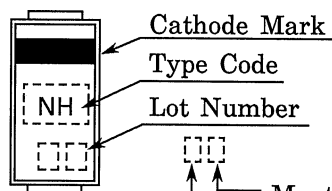
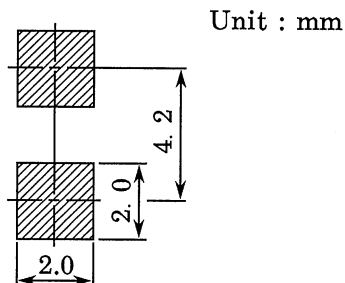
CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	U05NH44	V _{RRM}	1000	V
	U05TH44		1500	
Average Forward Current		I _{F (AV)}	0.5	A
I ² t Limit Value (t = 1~10ms)		I ² t	2	A ² s
Peak One Cycle Surge Forward Current (Non-Repetitive)		I _{FSM}	20 (50Hz)	A
Junction Temperature Range		T _j	-40~125	°C
Storage Temperature Range		T _{stg}	-40~125	°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

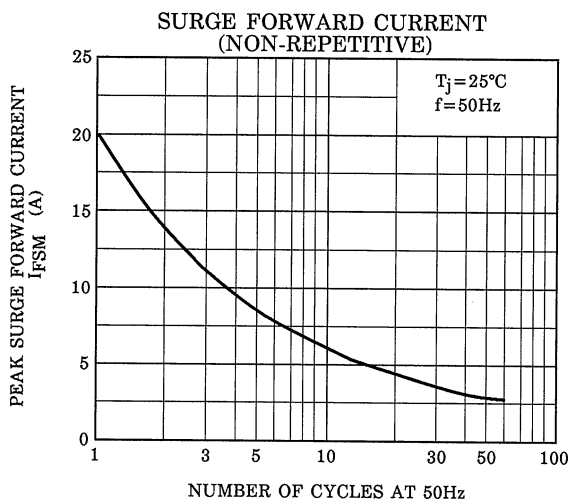
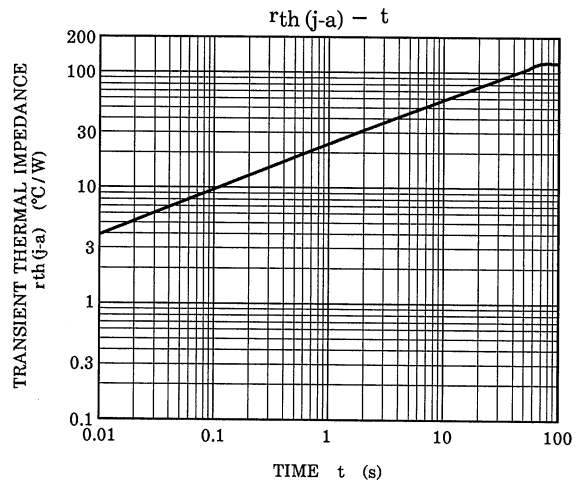
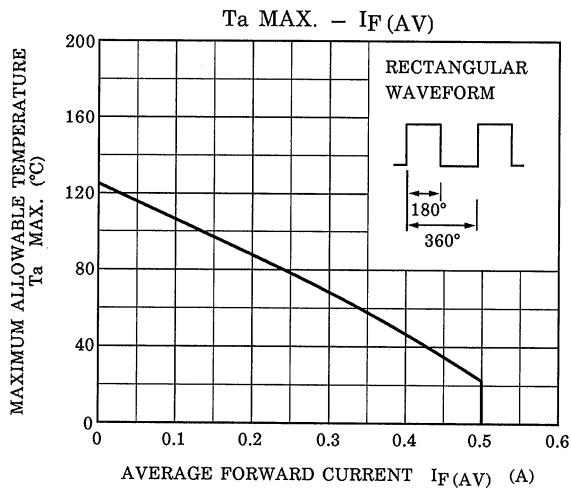
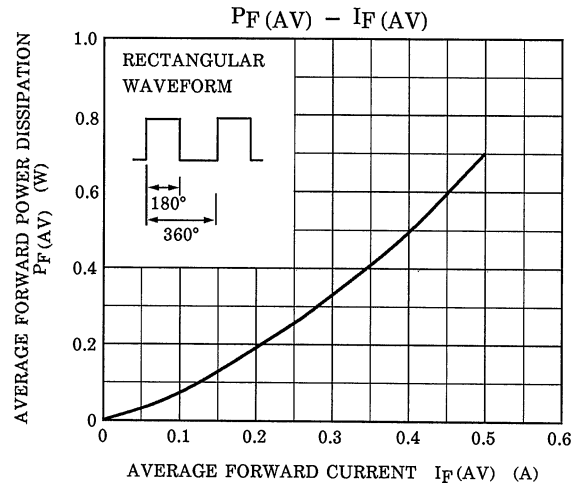
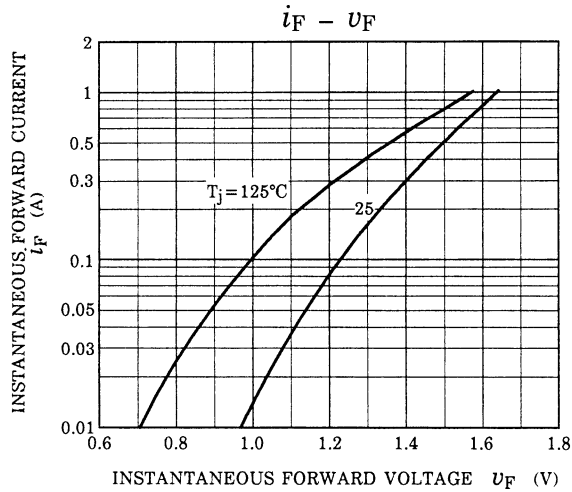
STANDARD SOLDERING PAD MARKING



CODE	TYPE
NH	U05NH44
TH	U05TH44

Month (Starting from Alphabet A)

Year (Last Number of the Christian Era)



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000707EAA

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