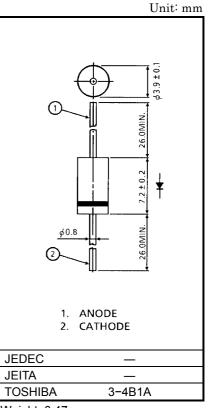
### TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# 1R5NH45

### SWITCHING MODE POWER SUPPLY APPLICATIONS

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V	
Average Forward Current (Ta = 25°C)	I <sub>F (AV)</sub>	1.5	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I <sub>FSM</sub>	30 (50H <sub>Z</sub> )	A	
		33 (60H <sub>Z</sub> )		
Junction Temperature Range	Tj	-40~150	°C	
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C	

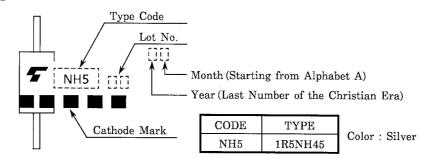


Weight: 0.47g

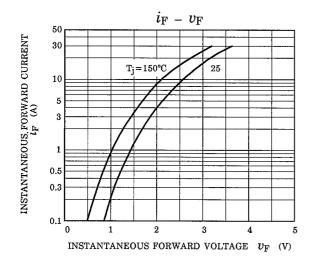
## **ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

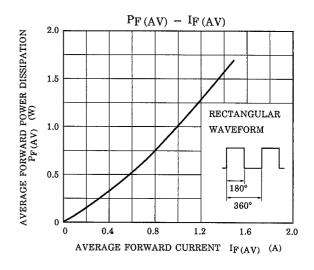
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	I <sub>FM</sub> = 1.5A	_	_	1.5	V
Repetitive Peak Reverse Current	I <sub>RRM</sub>	V <sub>RRM</sub> = 1000V	_	_	100	μΑ
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = 1A, di / dt = -30A / μs	_	_	200	ns
Forward Recovery Time	t <sub>fr</sub>	I <sub>F</sub> = 1.0A	_	_	750	ns
Thermal Resistance	R <sub>th (j-a)</sub>	Junction to Ambient		_	58	°C/W

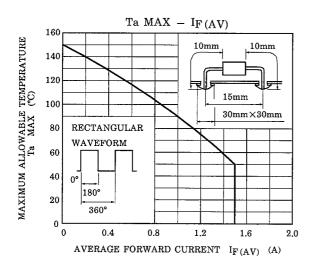
## Marking

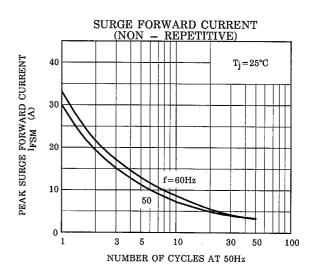


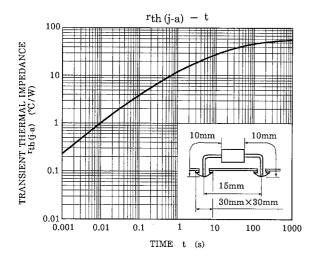
1 2001-07-09

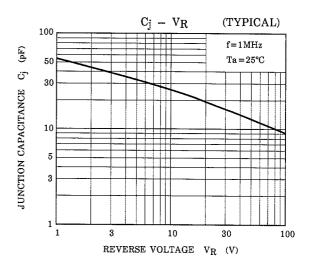












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000707EAA

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