#### TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# **1R5GH45**

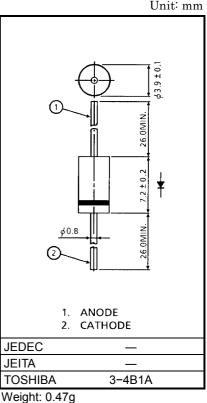
## SWITCHING MODE POWER SUPPLY APPLICATIONS

Unit: mm

- Repetitive Peak Reverse Voltage  $: V_{RRM} = 400V$
- Average Forward Current  $: I_F(AV) = 1.5A$
- Very Fast Reverse-Recovery Time : trr = 200ns (Max)

#### MAXIMUM RATINGS (Ta = 25°C)

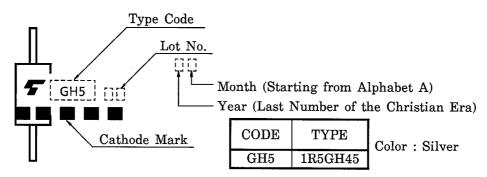
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	400	V	
Average Forward Current (Ta = 25°C)	I <sub>F (AV)</sub> 1.5		А	
Peak One Cycle Surge Forward Current (Non-Repetitive)	IFSM	50 (50Hz)	A	
		55 (60Hz)		
Junction Temperature Range	T <sub>j</sub> −40~150		°C	
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C	



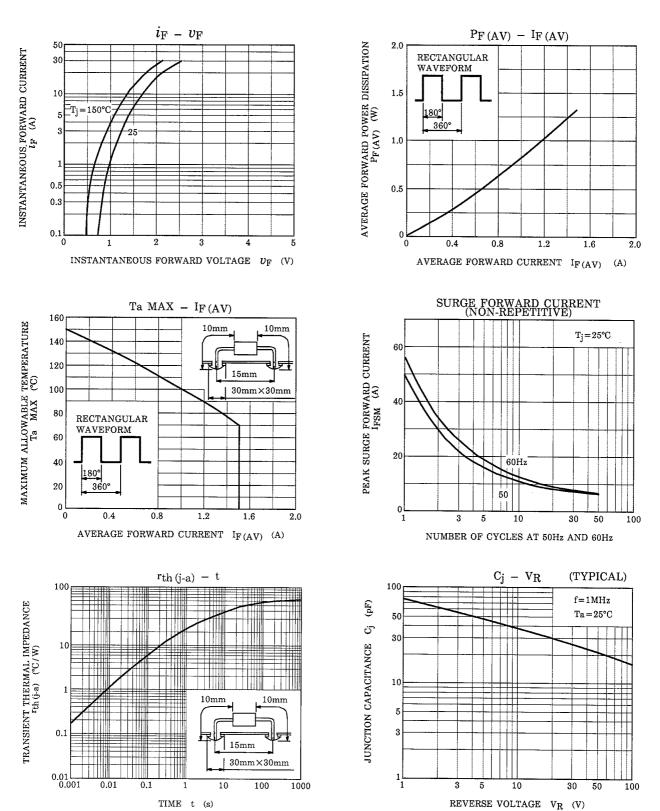
### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V <sub>FM</sub>	I <sub>FM</sub> = 1.5A	_	_	1.1	V
Repetitive Peak Reverse Current	I <sub>RRM</sub>	VRRM = 400V	_	_	100	μA
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	_	_	400	ns
Thermal Resistance	R <sub>th (j−a)</sub>	Junction to Ambient	_	_	58	°C/W

#### MARKING



# TOSHIBA



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