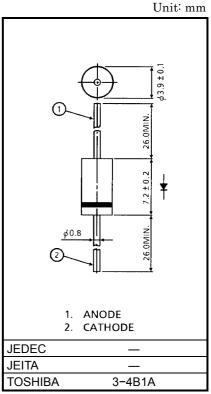
### TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# 1R5GH45

## SWITCHING MODE POWER SUPPLY APPLICATIONS

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	٧	
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>	50 (50Hz)	А	
		55 (60Hz)		
Junction Temperature Range	Tj	-40~150	°C	
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C	

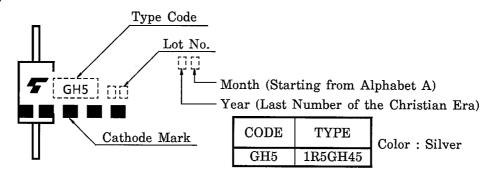


Weight: 0.47g

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

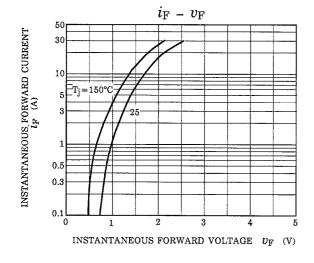
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	$V_{FM}$	I <sub>FM</sub> = 1.5A	_	_	1.1	V
Repetitive Peak Reverse Current	I <sub>RRM</sub>	V <sub>RRM</sub> = 400V	_	_	100	μΑ
Reverse Recovery Time	t <sub>rr</sub>	$I_F = 1A$ , di / dt = $-30A$ / $\mu$ s	_	_	200	ns
Forward Recovery 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

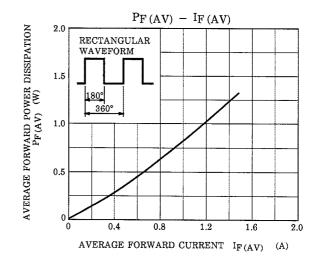
### **MARKING**

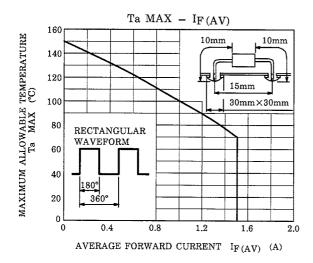


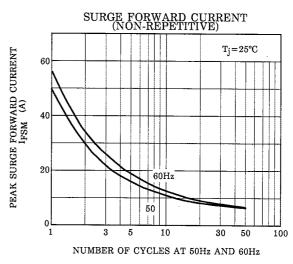
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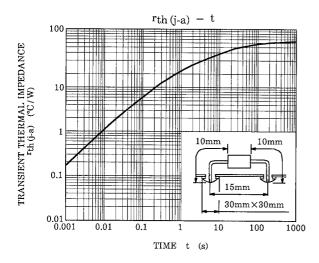
2001-07-09

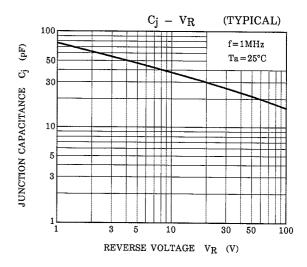












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000707EAA

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