TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

1R5GH45

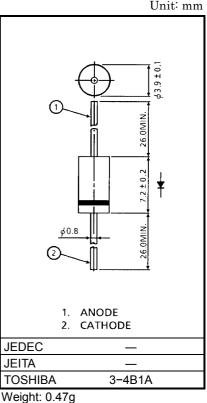
SWITCHING MODE POWER SUPPLY APPLICATIONS

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)

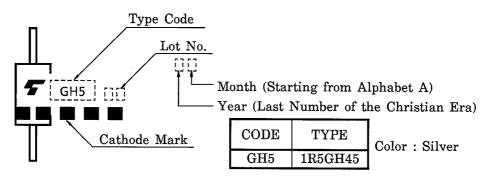
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V _{RRM}	400	V	
Average Forward Current (Ta = 25°C)	I _{F (AV)} 1.5		А	
Peak One Cycle Surge Forward Current (Non-Repetitive)	IFSM	50 (50Hz)	A	
		55 (60Hz)		
Junction Temperature Range	T _j −40~150		°C	
Storage Temperature Range	T _{stg}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



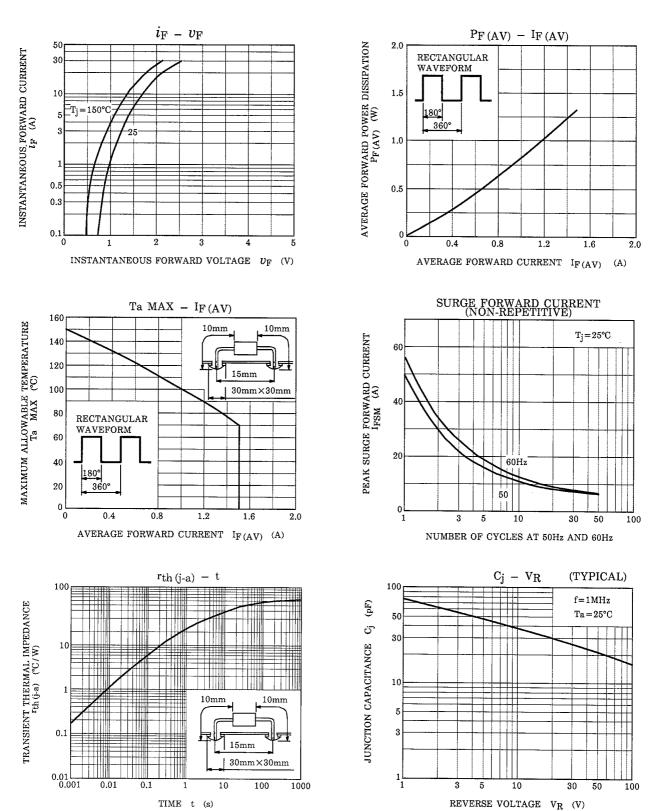
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 1.5A	_	_	1.1	V
Repetitive Peak Reverse Current	I _{RRM}	VRRM = 400V	_	_	100	μA
Reverse Recovery Time	t _{rr}	I _F = 1A, di / dt = −30A / μs		_	200	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	_	_	400	ns
Thermal Resistance	R _{th (j−a)}	Junction to Ambient	_	_	58	°C/W

MARKING



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