TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

1R5JH45

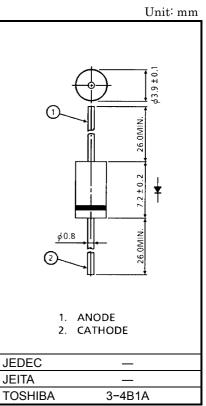
SWITCHING MODE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage $: V_{RRM} = 600V$
- Average Forward Current : IF (AV) = 1.5A
 - $\operatorname{Tr}(AV) = 1.011$
- Very Fast Reverse-Recovery Time $: t_{rr} = 200$ ns (MAX.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V _{RRM}	600	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	Tj	-40~150	°C	
Storage Temperature Range	T _{stg}	-40~150	°C	

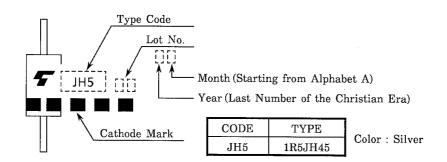
ELECTRICAL CHARACTERISTICS (Ta = 25°C)



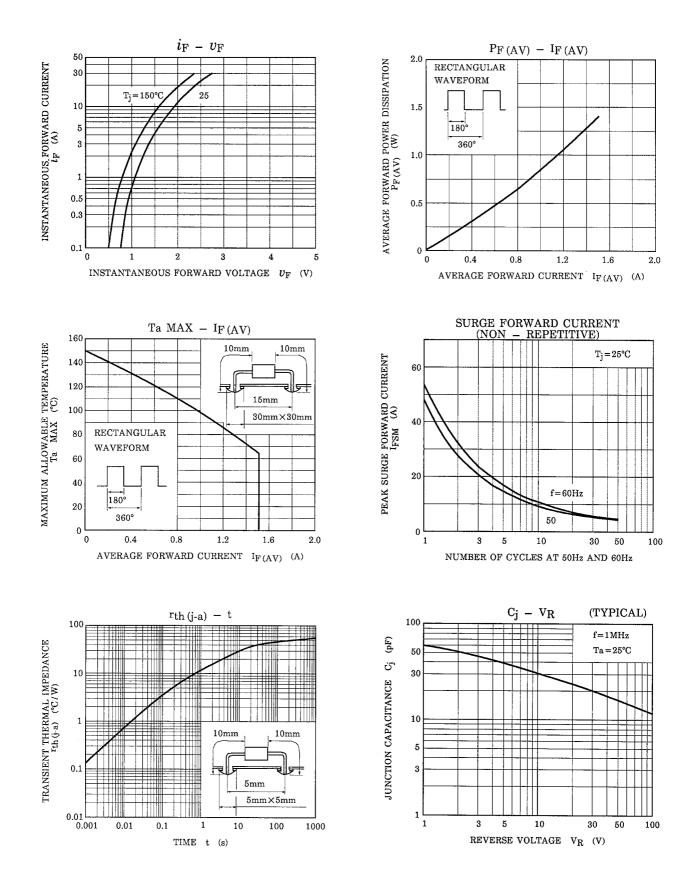
Weight: 0.47g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 1.5A	_	—	1.2	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 600V	_	_	100	μΑ
Reverse Recovery Time	t _{rr}	I _F = 1A, di / dt = −30A / μs	_	_	200	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	_	_	500	ns
Thermal Resistance	R _{th (i−a)}	Junction to Ambient	_	_	58	°C/W

Marking



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