TOSHIBA

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

05NH46

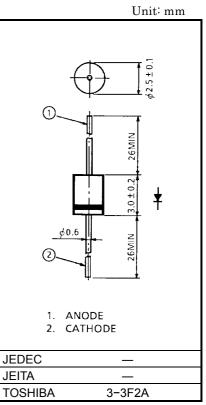
SWITCHING MODE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage $: V_{RRM} = 1000V$
- Average Forward Current $: I_F(AV) = 0.5A$
- Very Fast Reverse-Recovery Time : t_{rr} = 200ns (Max)

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

MAXIMUM RATINGS (Ta = 25°C)

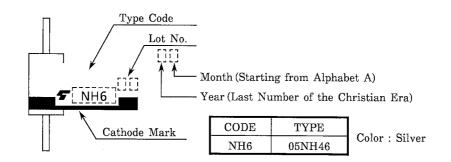
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V _{RRM}	1000	V	
Average Forward Current (Ta = 25°C)	I _{F (AV)}	0.5	А	
Peak One Cycle Surge Forward Current (Non-Repetitive)	IFSM	15 (50H _Z)	A	
		17 (60H _Z)		
Junction Temperature Range	Tj	-40~150	°C	
Storage Temperature Range	T _{stg}	-40~150	°C	



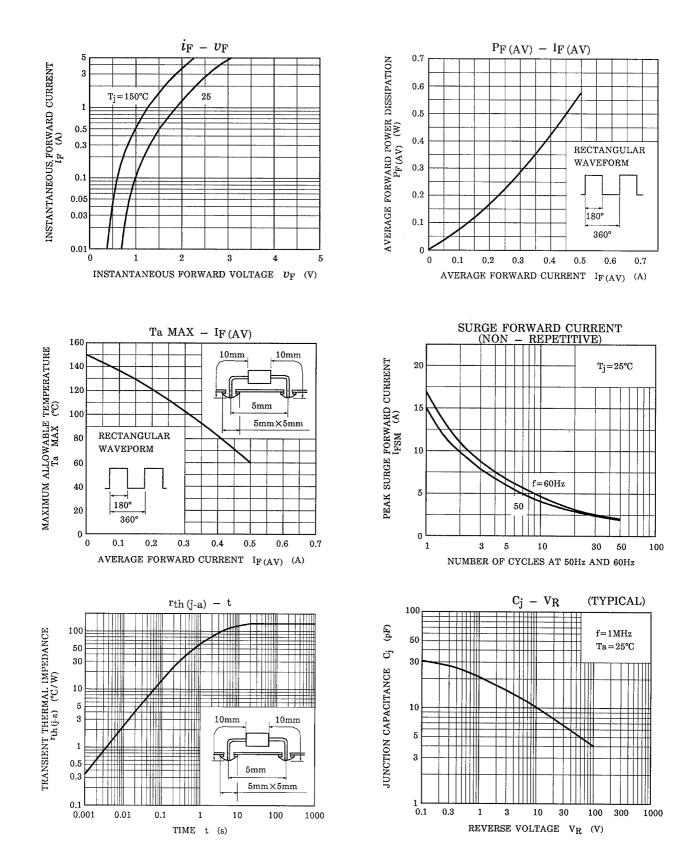
Weight: 0.18g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V _{FM}	I _{FM} = 0.5A	_	_	1.5	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 1000V	_	_	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	_	_	750	ns
Thermal Resistance	R _{th (j−a)}	Junction to Ambient	_	_	150	°C/W

Marking



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