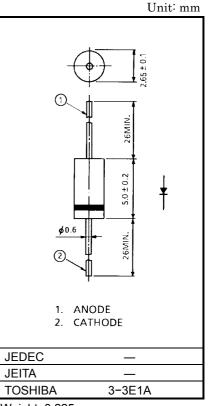
TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

05NH45

SWITCHING MODE POWER SUPPLY APPLICATIONS

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	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	20 (50H _Z)	A	
		22 (60H _Z)		
Junction Temperature Range	Tj	-40~150	°C	
Storage Temperature Range	T _{stg}	-40~150	°C	

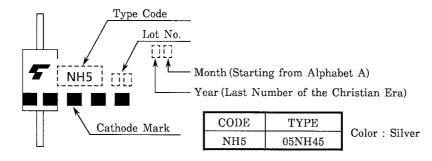


Weight: 0.225g

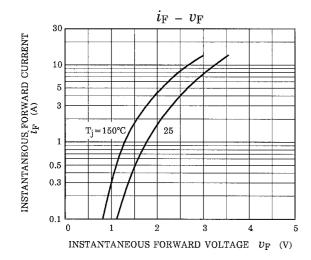
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

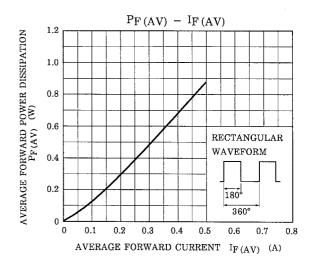
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	I _{FM} = 0.5A	_	_	1.5	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 1000V	_	_	100	μA
Reverse Recovery Time	t _{rr}	I _F = 1A, di / dt = -30A / μs	_	_	200	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	_	_	750	ns
Thermal Resistance	R _{th (j-a)}	Junction to Ambient	_	_	75	°C/W

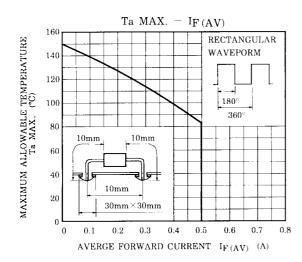
MARKING

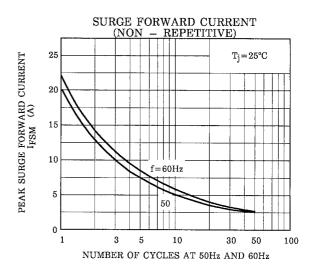


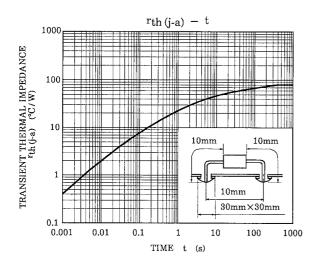
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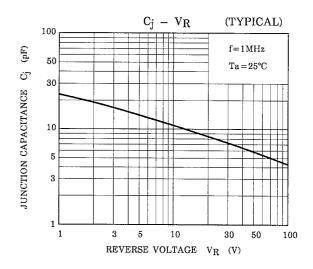












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