TOSHIBA SUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

05NU41

SWITCHING MODE POWER SUPPLY APPLICATIONS

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	V_{RRM}	1000	٧	
Average Forward Current	I _{F (AV)}	0.5	Α	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	10 (50H _Z)	А	
		11 (60H _Z)		
Junction Temperature Range	Tj	-40~150	°C	
Storage Temperature Range	T _{stg}	-40~150	°C	

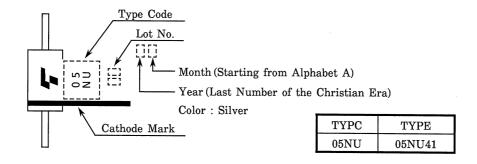
Unit: mm 1. ANODE 2. CATHODE JEDEC — JEITA — TOSHIBA 3-3E1A

Weight: 0.225g

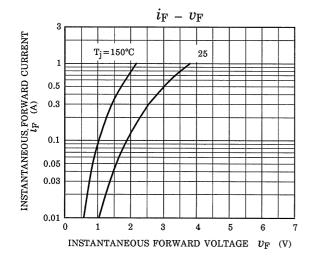
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

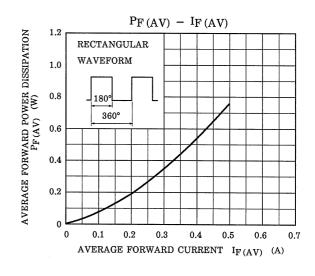
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	I _{FM} = 0.5A	_	_	3.0	V
Repetitive Peak Reverse Current	I _{RRM}	V _{RRM} = 1000V	_	_	100	μA
Reverse Recovery Time	t _{rr}	I _F = 1A, di / dt = -30A / μs	_	_	100	ns
Forward Recovery Time	t _{fr}	I _F = 1.0A	_	300	_	ns

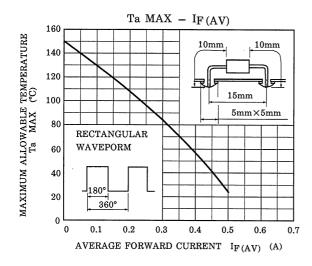
Marking

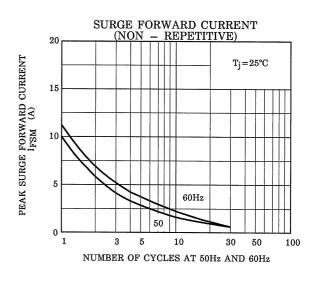


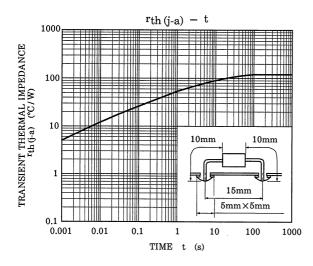
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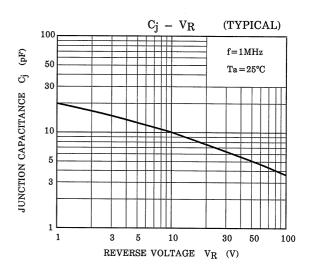












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 In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
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