

TOSHIBA SUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# 05NU41

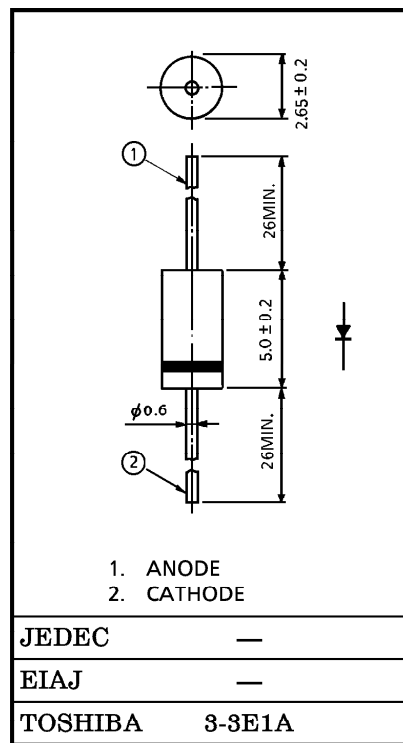
SWITCHING TYPE POWER SUPPLY APPLICATIONS

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=1000V$
- Average Forward Current :  $I_{F(AV)}=0.5A$
- Very Fast Reverse-Recovery Time :  $t_{rr}=100ns$

**MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Average Forward Current	$I_{F(AV)}$	0.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	10 (50Hz)	A
		11 (60Hz)	
Junction Temperature Range	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C

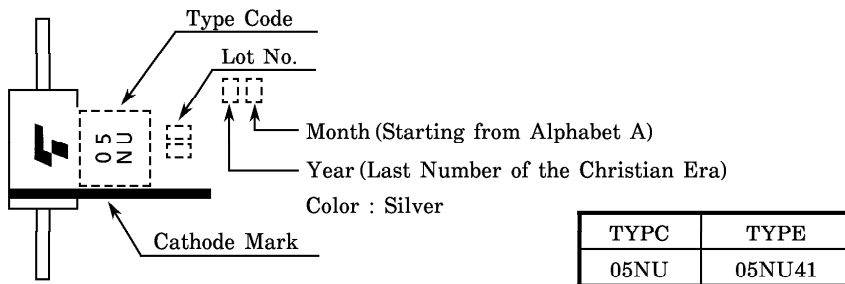


Weight : 0.225g

**ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

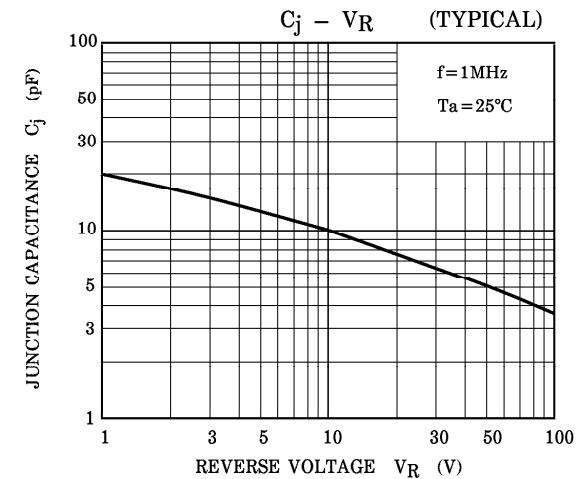
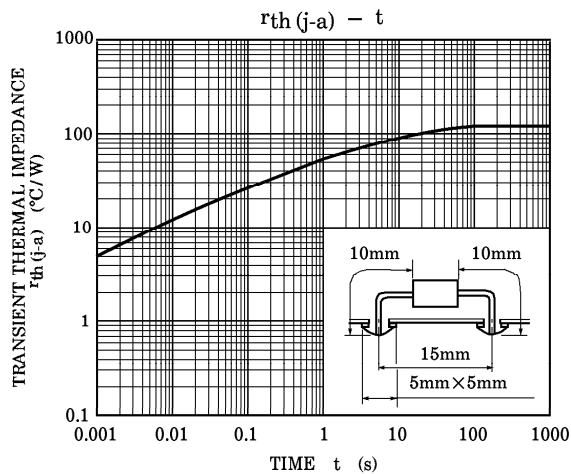
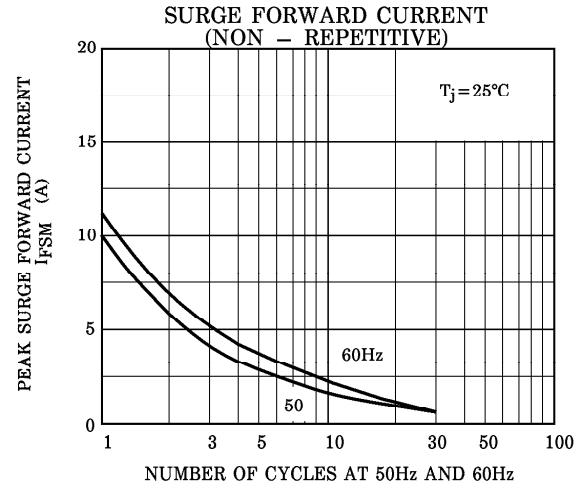
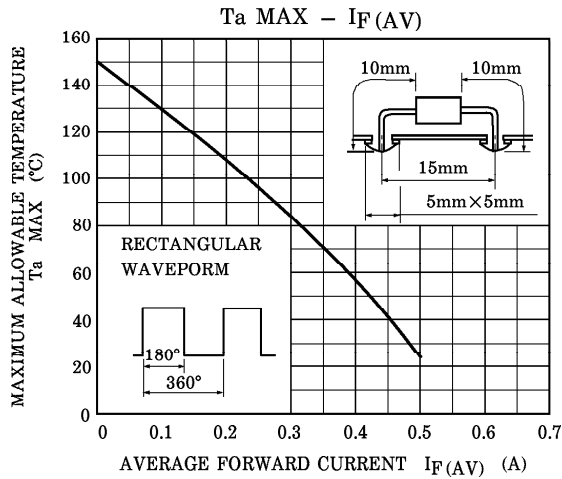
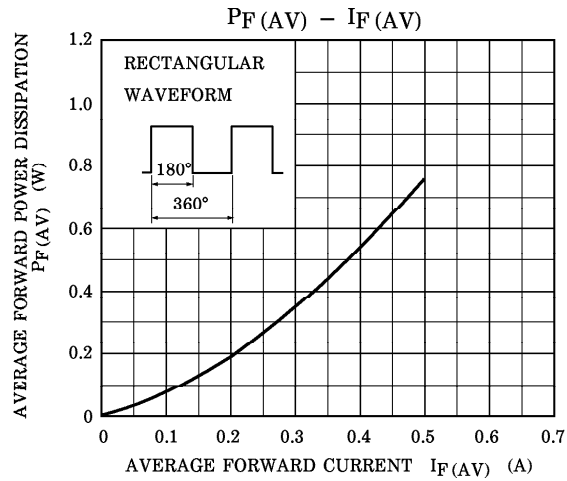
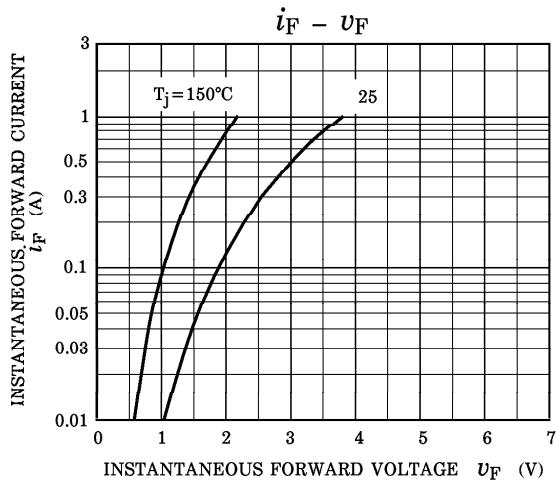
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=0.5A$	—	—	3.0	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=1000V$	—	—	100	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F=1A, di/dt = -30A/\mu s$	—	—	100	ns
Forward Recovery Time	$t_{fr}$	$I_F=1.0A$	—	300	—	ns

**Marking**



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