

TOSHIBA SUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

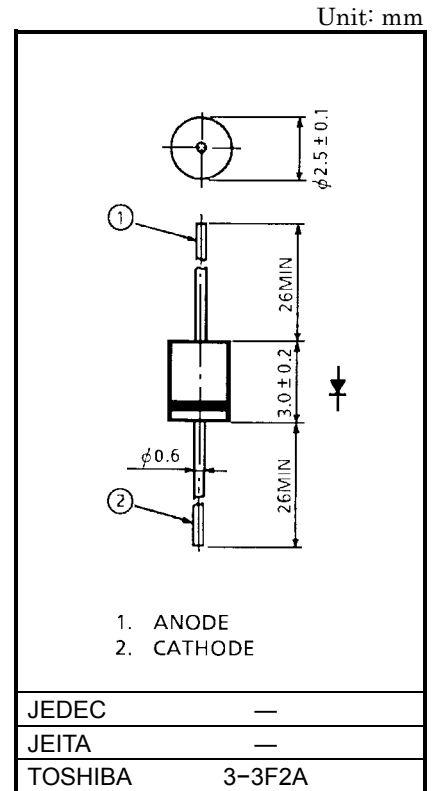
## 05NU42

### 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 :  $t_{rr} = 100ns (Max)$

### MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

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	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~150	$^\circ C$

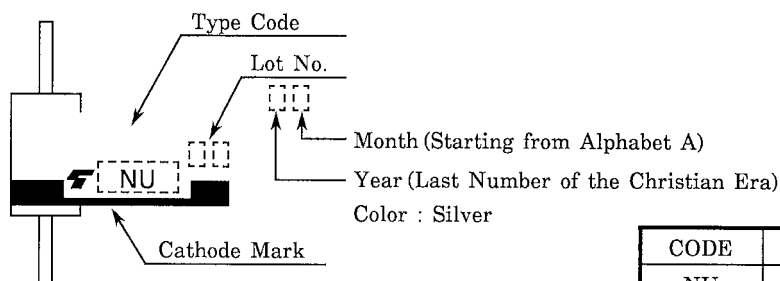


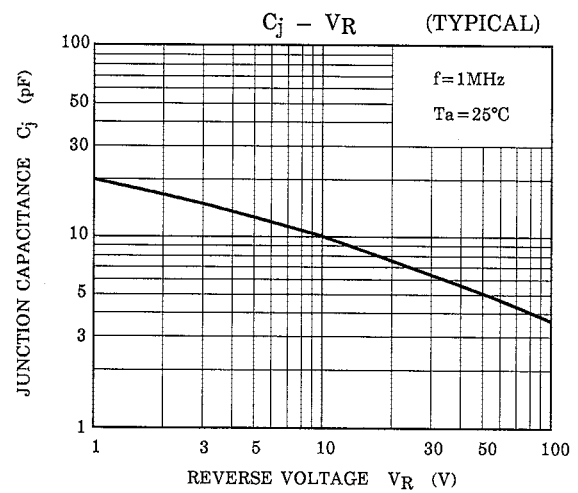
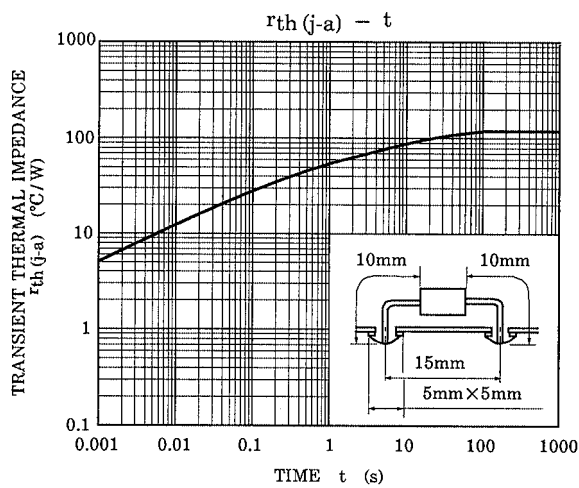
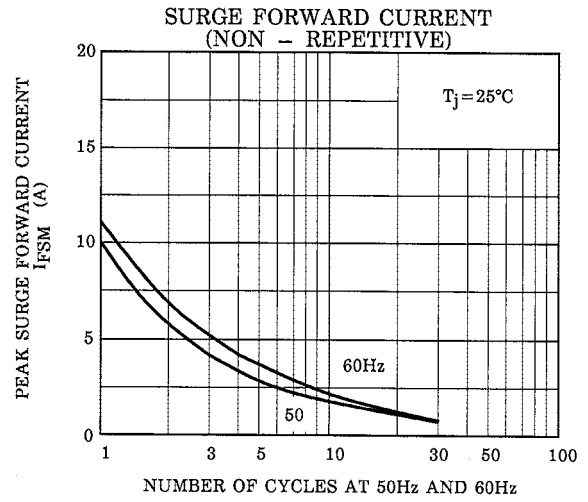
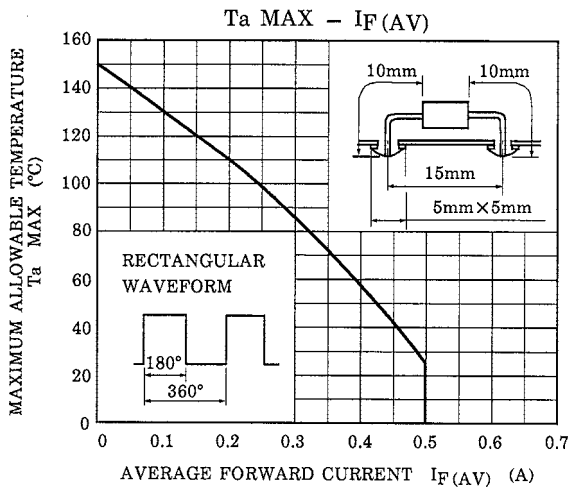
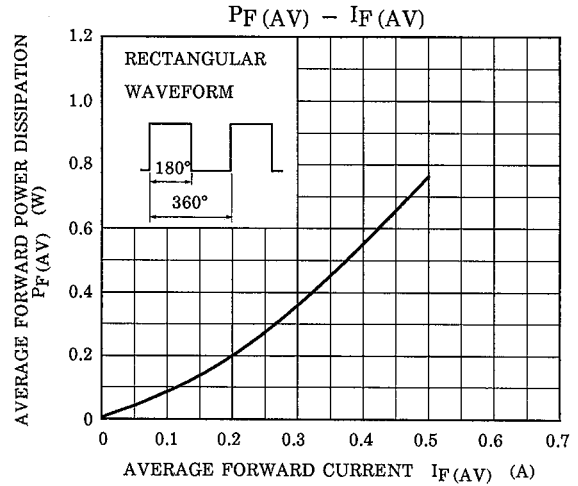
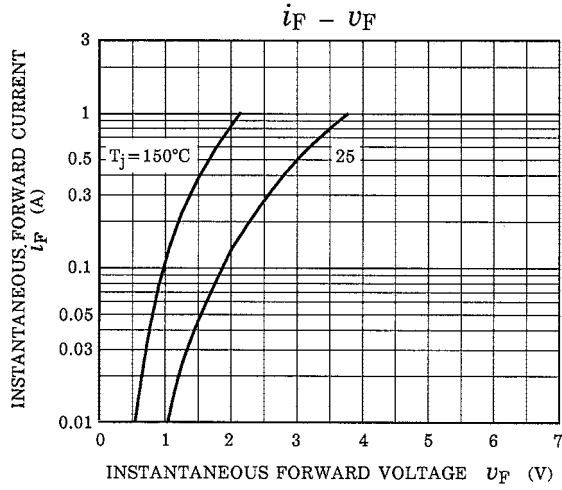
Weight: 0.18g

### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

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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000707EAA

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