

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# 3NH41

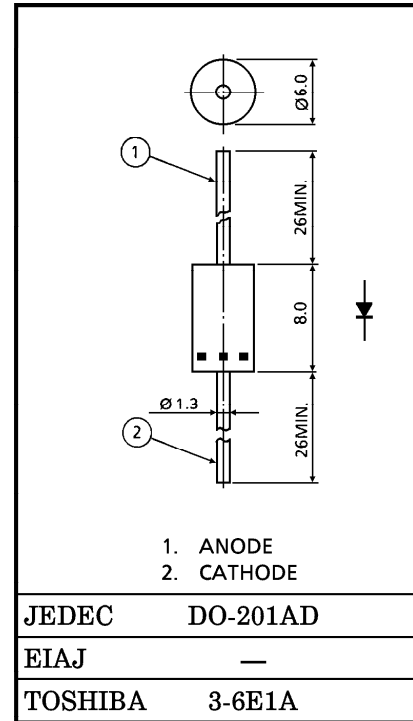
SWITCHING TYPE POWER SUPPLY APPLICATIONS

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=1000V$
- Average Forward Current :  $I_F(AV)=3.0A$
- Very Fast Reverse-Recovery time :  $t_{rr}=400ns$  (Max.)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Average Forward Current ( $T_c = 25^\circ C$ )	$I_F(AV)$	3.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	100 (50Hz)	A
		110 (60Hz)	
Junction Temperature Range	$T_j$	-40~150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40~150	$^\circ C$

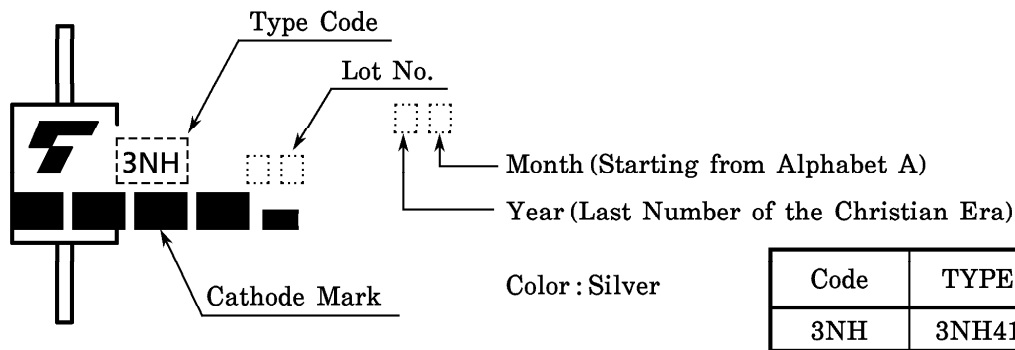


Weight : 1.18g

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

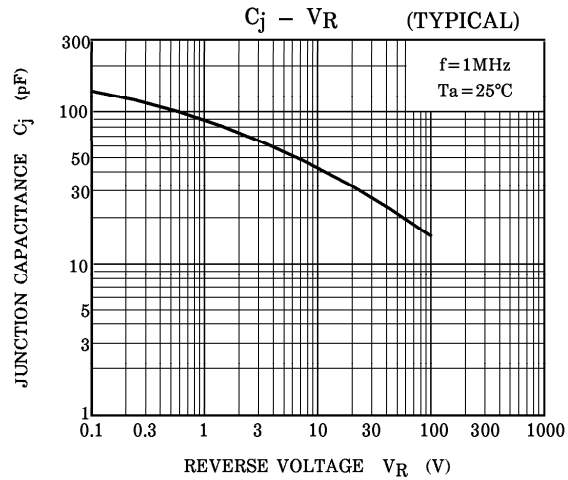
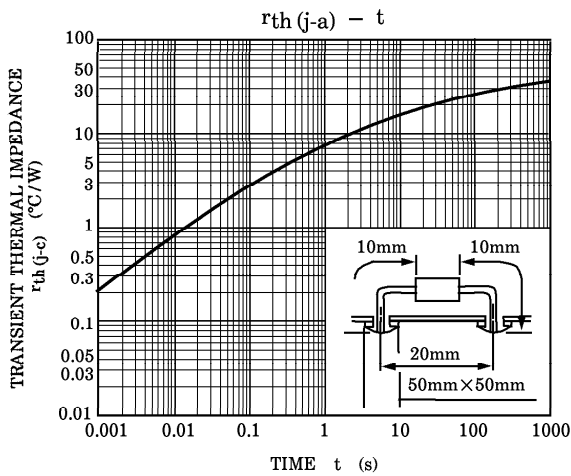
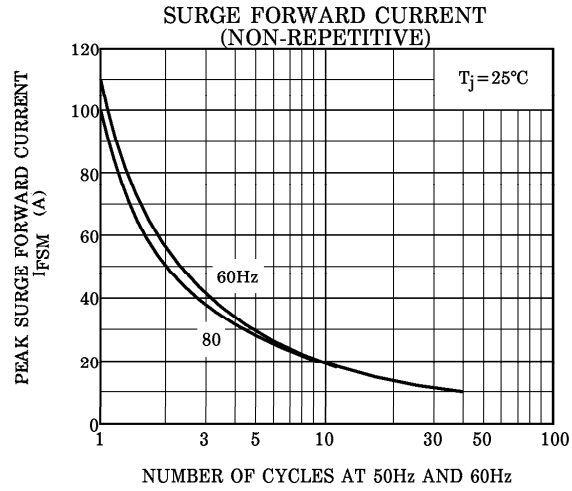
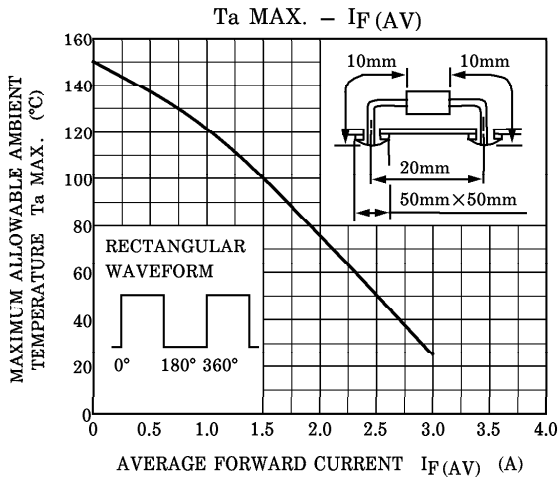
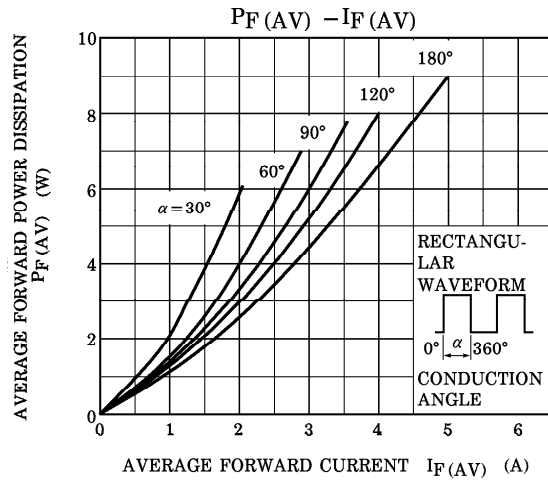
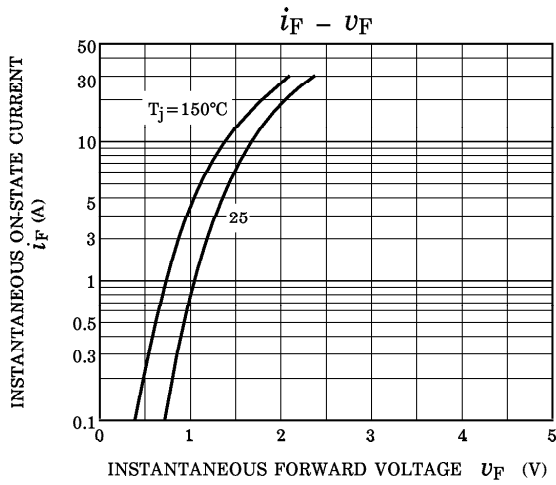
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=3.0A$	—	—	1.3	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=1000V$	—	—	10	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F=1A, di/dt = -30A/\mu s$	—	—	400	ns
Forward Recovery Time	$t_{fr}$	$I_F=1.0A$	—	—	650	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	—	35	$^\circ C/W$

MARKING



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