

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

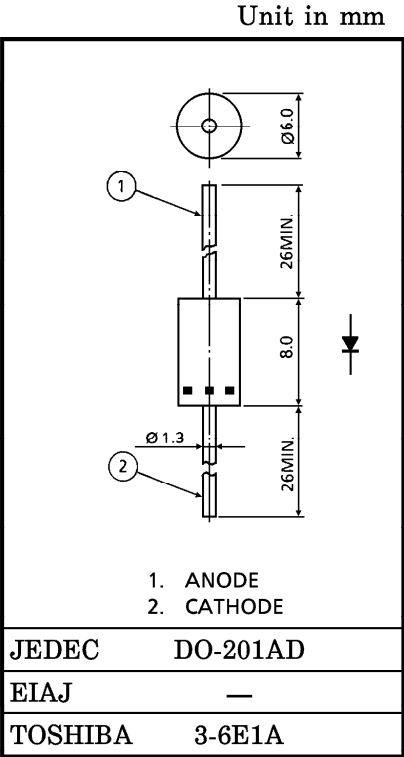
3NH41

SWITCHING TYPE POWER SUPPLY APPLICATIONS

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

MAXIMUM RATINGS (Ta = 25°C)

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

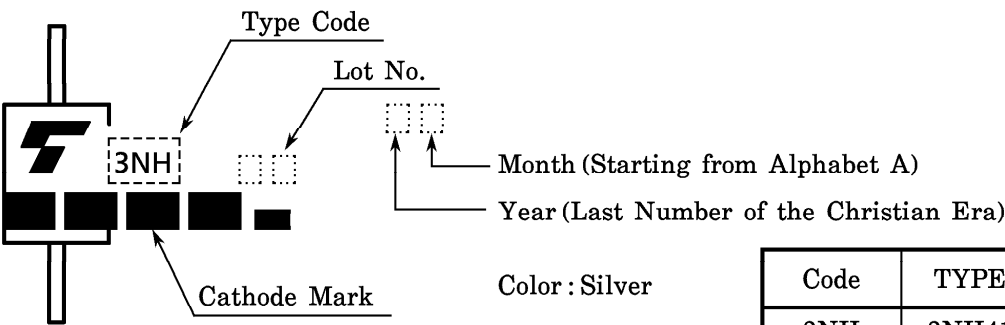


Weight : 1.18g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=3.0A$	—	—	1.3	V
Repetitive Reak Reverse Current	I_{RRM}	$V_{RRM}=1000V$	—	—	10	μA
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	°C/W

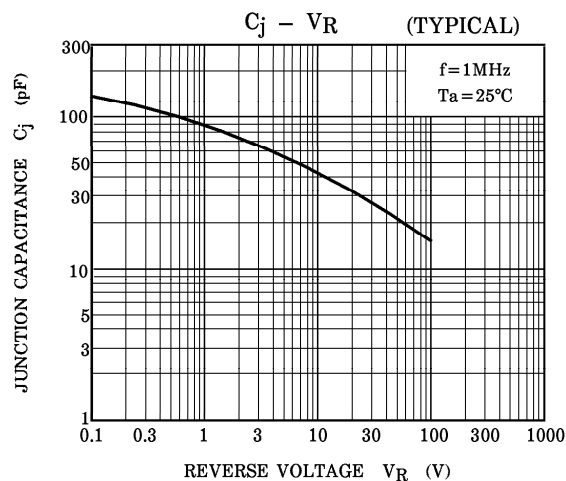
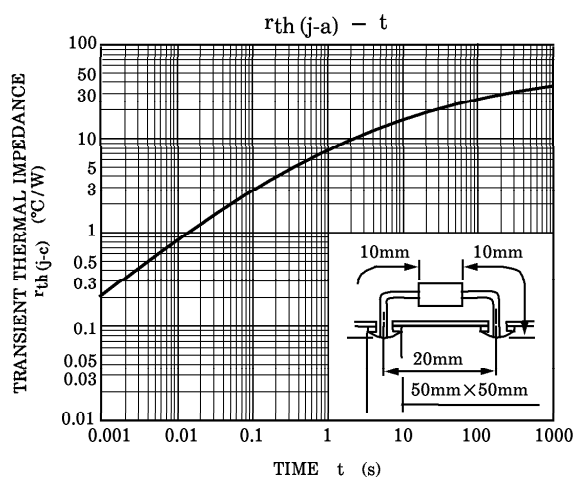
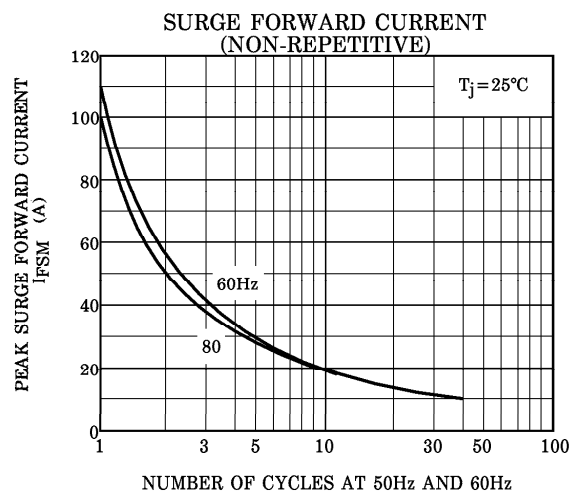
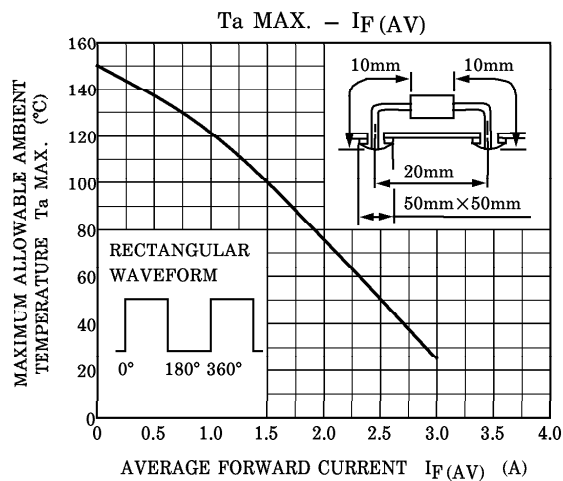
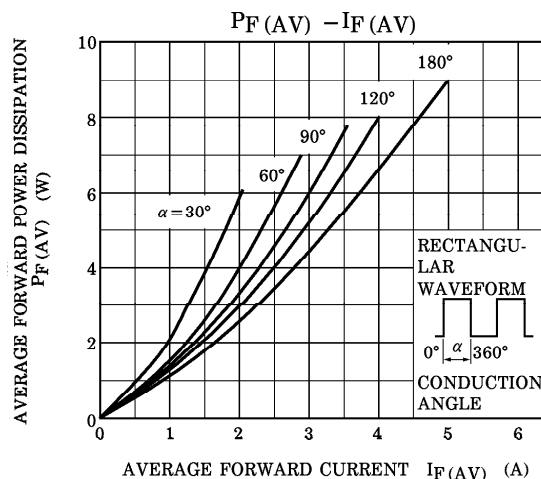
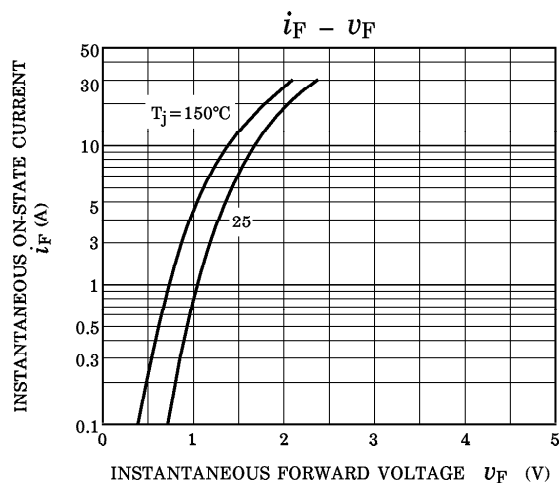
MARKING



Code	TYPE
3NH	3NH41

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