

TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

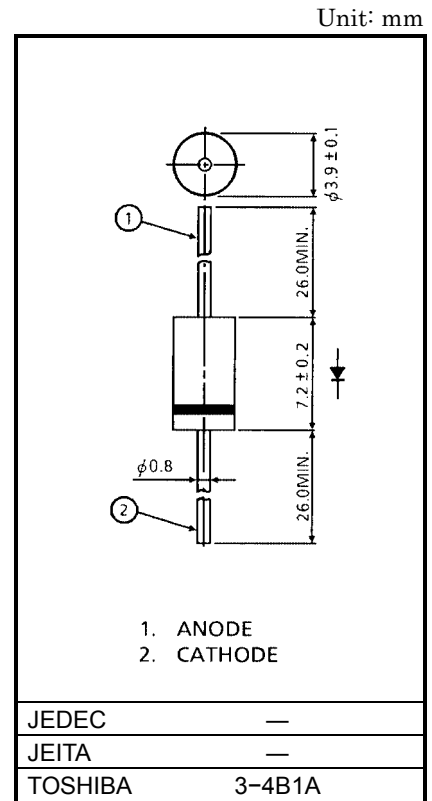
1R5NH45

SWITCHING MODE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM} = 1000V$
- Average Forward Current : $I_F (AV) = 1.5A$
- Very Fast Reverse-Recovery Time : $t_{rr} = 200ns (Max)$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Average Forward Current (Ta = 25°C)	$I_F (AV)$	1.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	30 (50Hz)	A
		33 (60Hz)	
Junction Temperature Range	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C

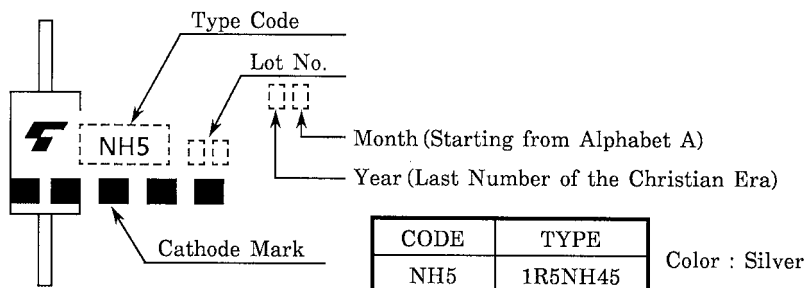


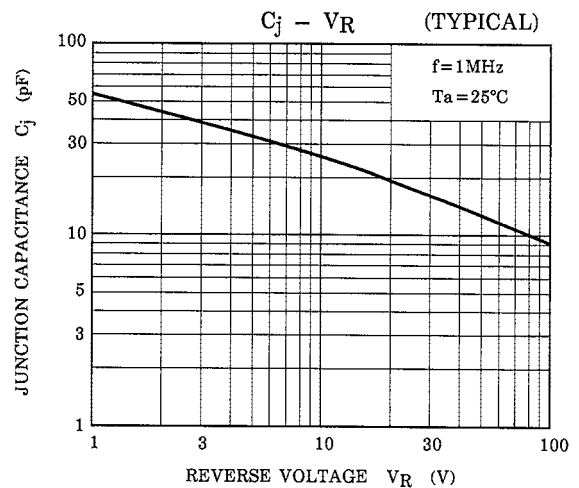
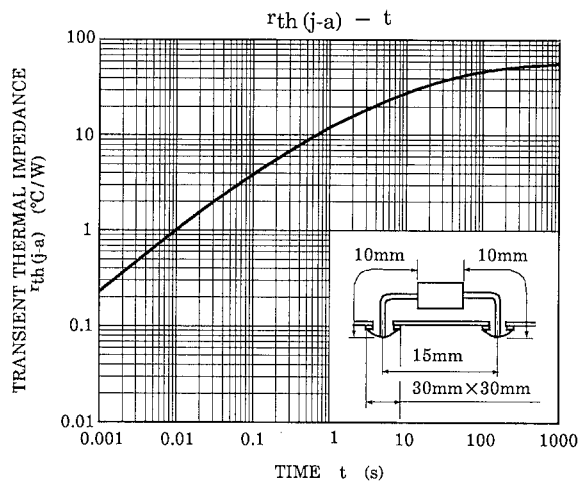
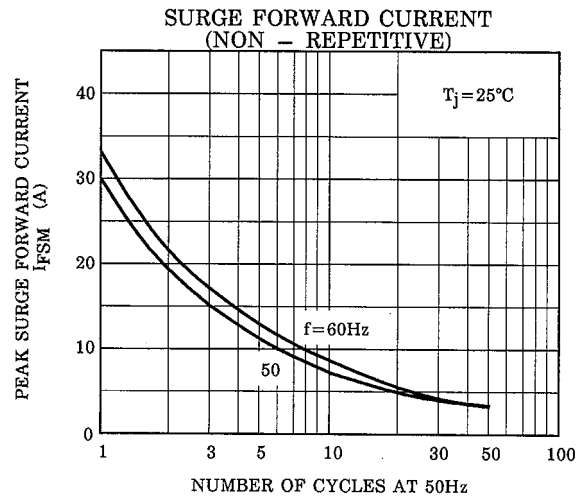
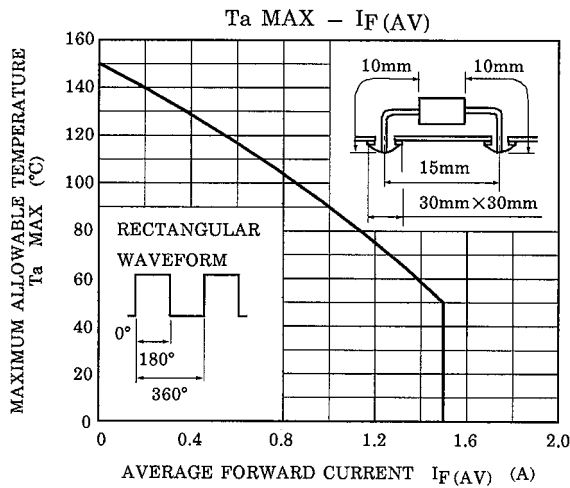
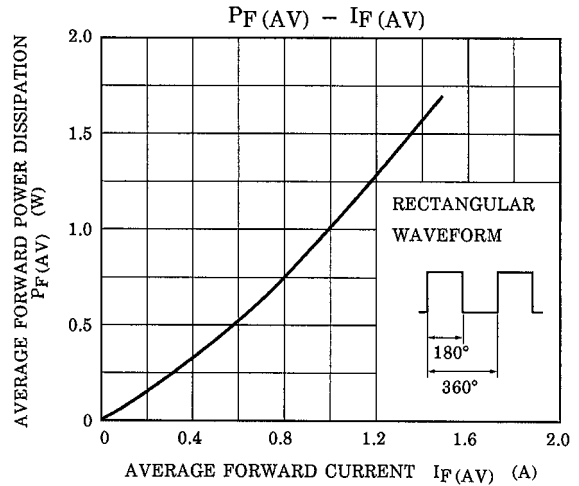
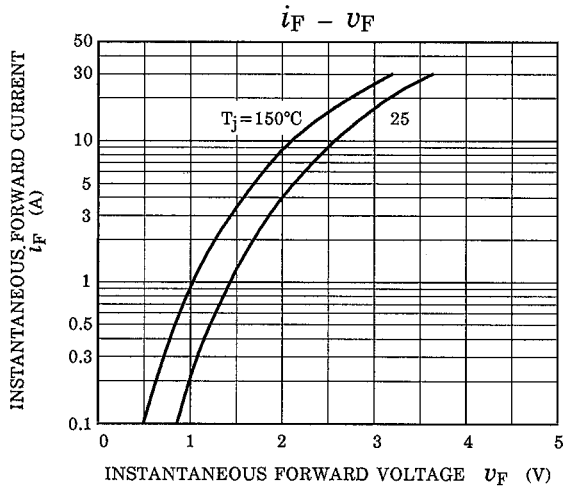
Weight: 0.47g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 1.5A$	—	—	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 1000V$	—	—	100	μA
Reverse Recovery Time	t_{rr}	$I_F = 1A, di / dt = -30A / \mu s$	—	—	200	ns
Forward Recovery Time	t_{fr}	$I_F = 1.0A$	—	—	750	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	—	58	°C / W

Marking





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