

TOSHIBA SUPER FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

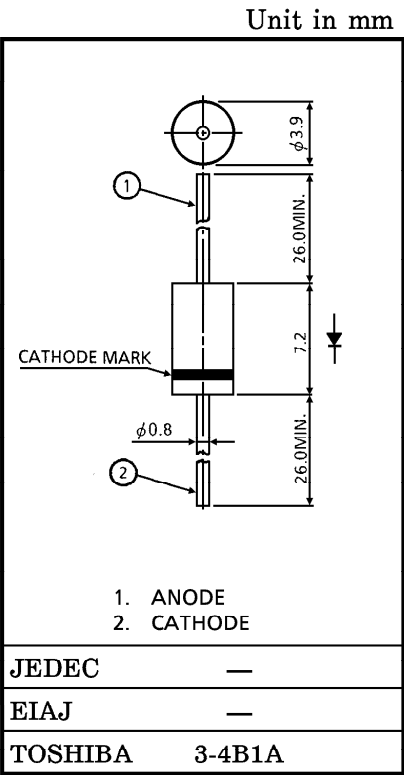
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SWITCHING TYPE POWER SUPPLY APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM}=1000V$
- Average Forward Current : $I_F(AV)=1.5A$
- Very Fast Reverse-Recovery Time : $t_{rr}=100ns$

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Average Forward Current	$I_F(AV)$	1.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	60 (50Hz) 66 (60Hz)	A
Junction Temperature Range	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

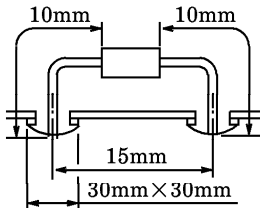
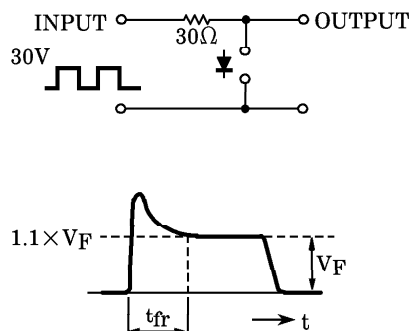
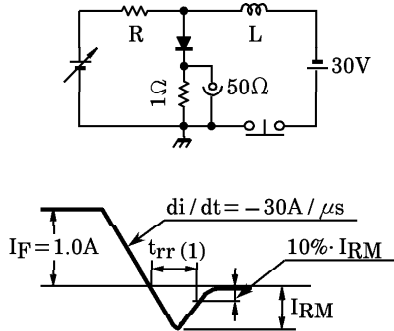
Weight : 0.47g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=2.0A$	—	—	3.0	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=Rated$	—	—	100	μA
Reverse Recovery Time (Note 1)	t_{rr}	$I_F=1A, di/dt=-30A/\mu s$	—	—	100	ns
Forward Recovery Time (Note 2)	t_{fr}	$I_F=1.0A$	—	300	—	ns
Thermal Resistance (Note 3)	$R_{th(j-a)}$	Junction to Ambient	—	—	58	°C/W
Thermal Resistance (Note 3)	$R_{th(j-l)}$	Junction to Lead	—	—	30	°C/W

Note 1 : t_{rr} TEST CIRCUIT

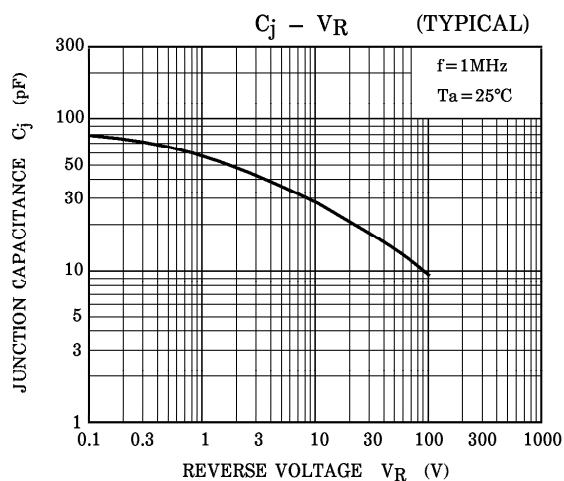
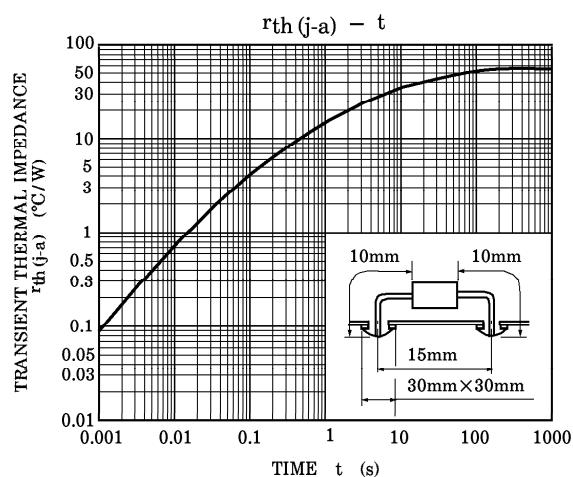
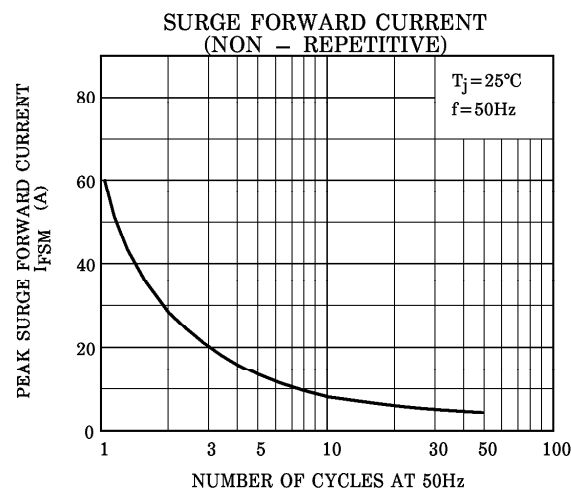
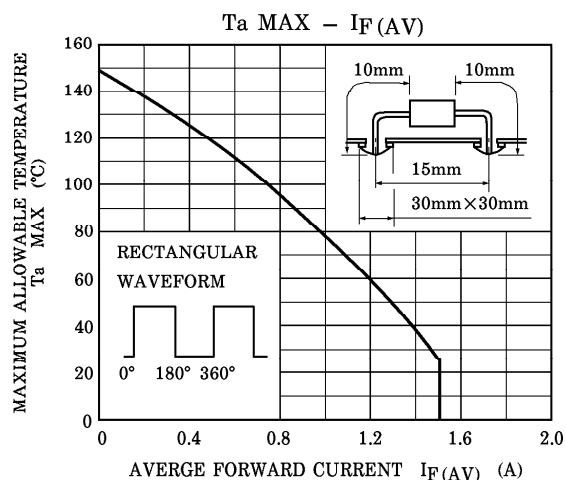
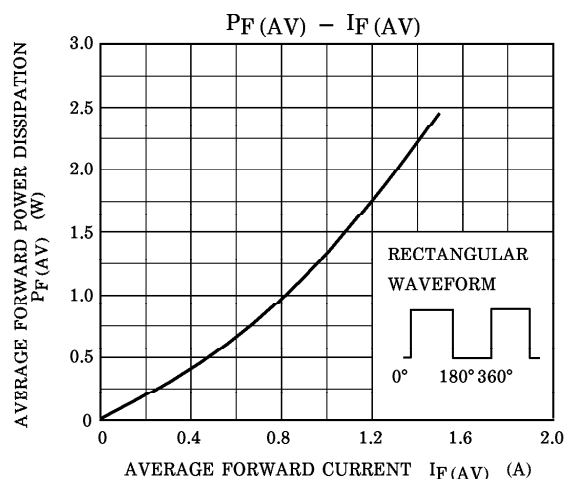
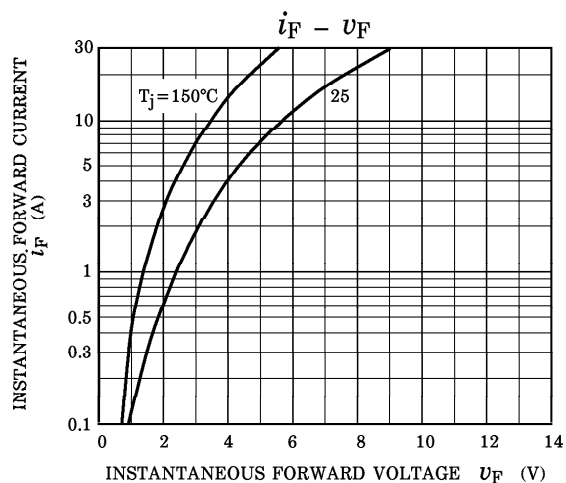
Note 2 : t_{fr} TEST CIRCUIT

Note 3 : THERMAL RESISTANCE



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