

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

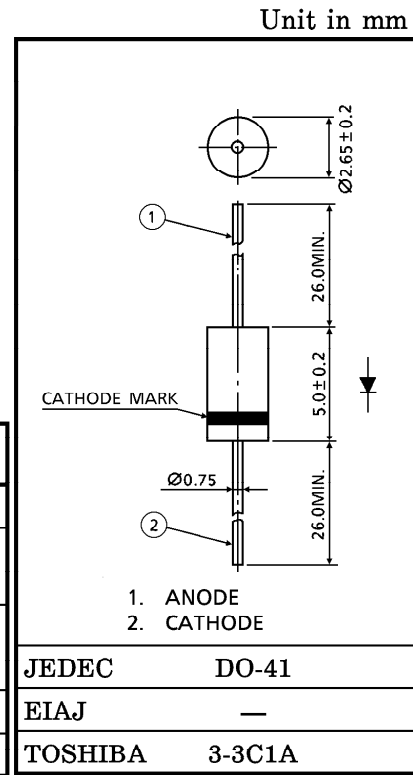
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HIGH SPEED RECTIFIER APPLICATIONS
(FAST RECOVERY)

- Average Forward Current : $I_F (AV) = 0.8A (T_a = 40^\circ C)$
- Repetitive Peak Reverse Voltage : $V_{RRM} = 200 \sim 400V$
- Reverse Recovery Time : $t_{rr} = 100ns (Max.)$
- Plastic Mold Type.

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Average Forward Current ($T_a = 40^\circ C$)	$I_F (AV)$	0.8	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	30 (50Hz)	A
		33 (60Hz)	
Junction Temperature	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C



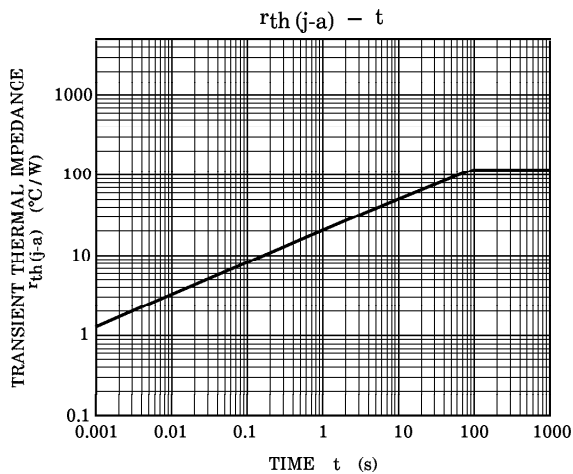
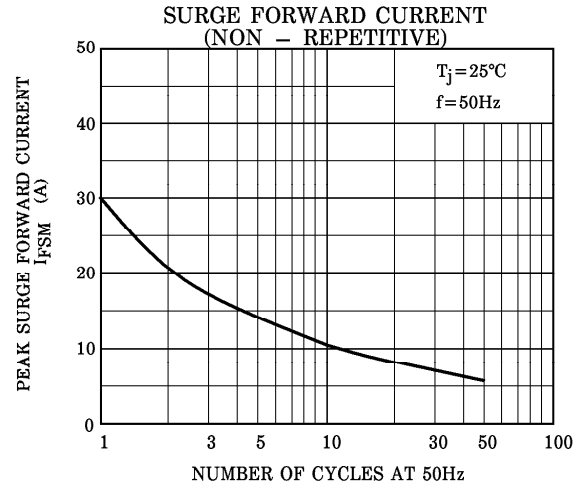
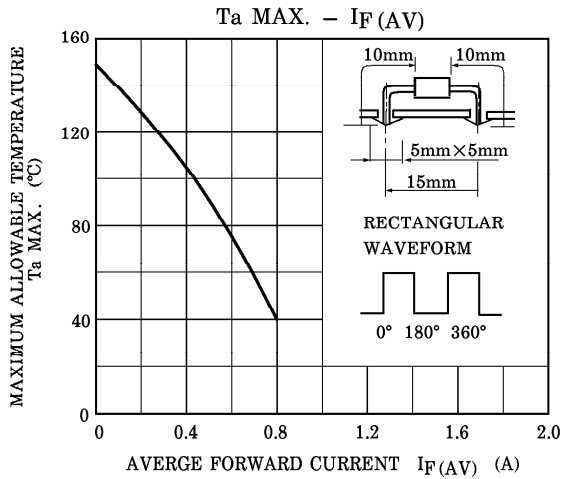
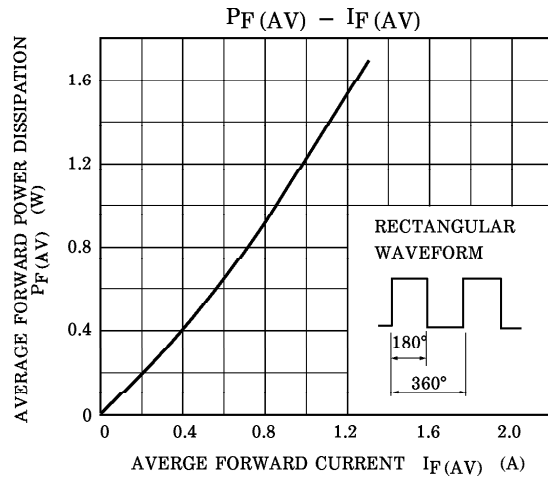
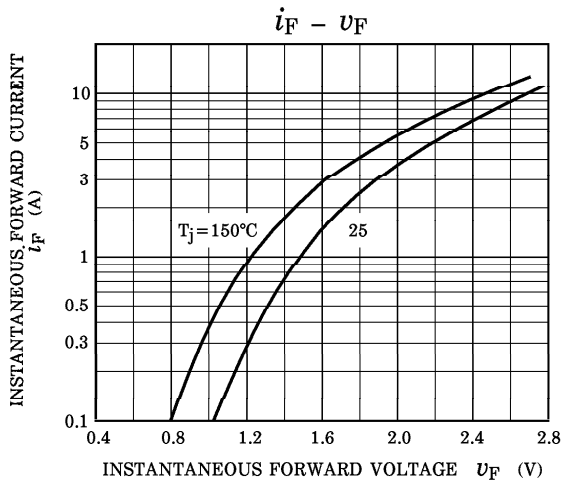
Weight : 0.3g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 1.0A$	—	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 400V$	—	50	μA
Reverse Recovery Time	t_{rr}	$I_F = 1.0A, di/dt = -30A/\mu s$	—	100	ns
Forward Recovery Time	t_{fr}	$I_F = 1.0A$	—	200	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	115	°C/W
Thermal Resistance	$R_{th(j-l)}$	Junction to Lead	—	45	°C/W

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