

TOSHIBA Fast Recovery Diode Silicon Diffused Type

TFR4N, TFR4T

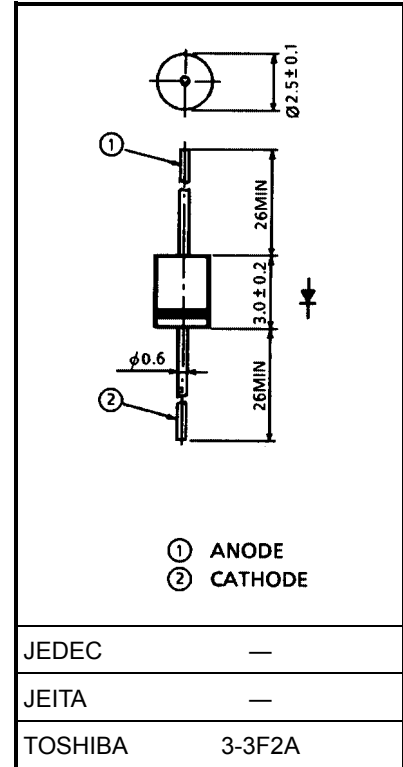
Strobo Flasher Applications (fast recovery)

- Average Forward Current: $I_F (AV) = 0.3 \text{ A}$
- Repetitive Peak Reverse Voltage: $V_{RRM} = 1000, 1500 \text{ V}$
- Reverse Recovery Time: $t_{rr} = 4 \mu\text{s}$

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics		Symbol	Rating	Unit
Repetitive peak reverse voltage	TFR4N	V_{RRM}	1000	V
	TFR4T		1500	
Average forward current		$I_F (AV)$	0.3	A
I^2t limit value (t = 1 to 10 ms)		I^2t	0.5	A^2s
Peak one cycle surge forward current (non repetitive)		I_{FSM}	10 (50 Hz)	A
Junction temperature		T_j	-40 to 125	$^\circ\text{C}$
Storage temperature range		T_{stg}	-40 to 125	$^\circ\text{C}$

Unit: mm

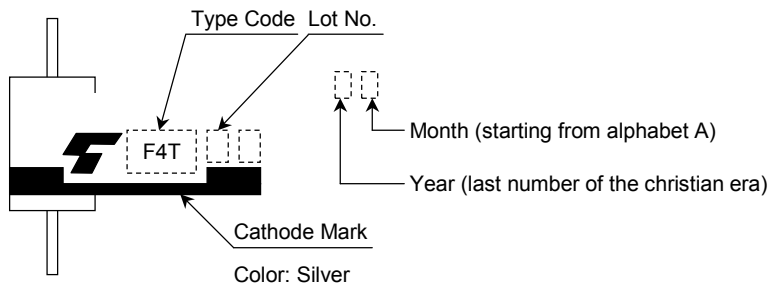


Weight: 0.18 g (typ.)

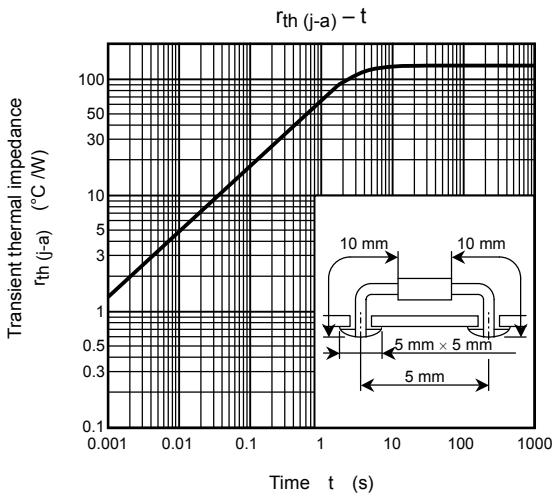
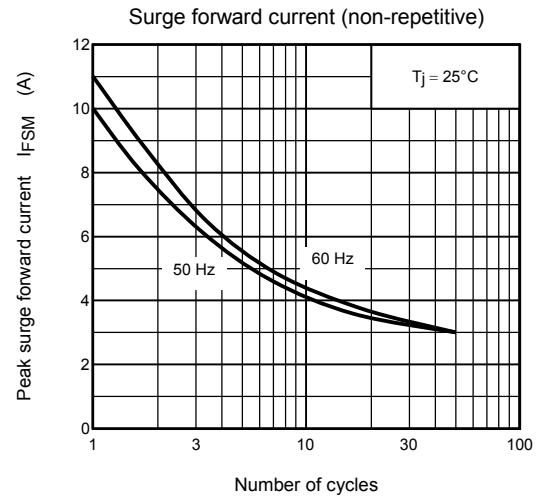
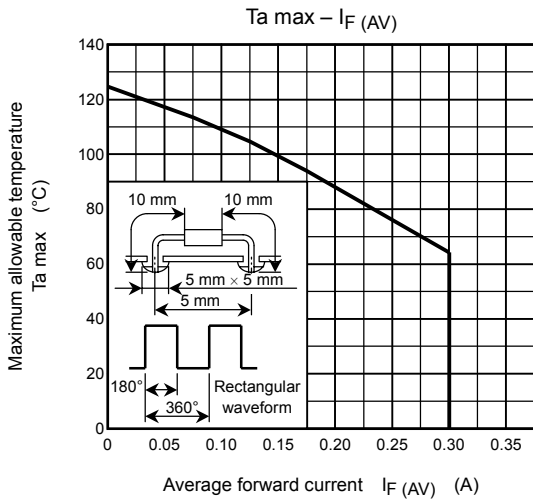
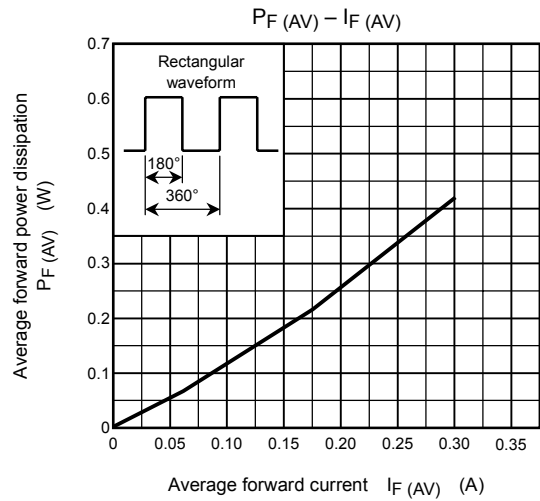
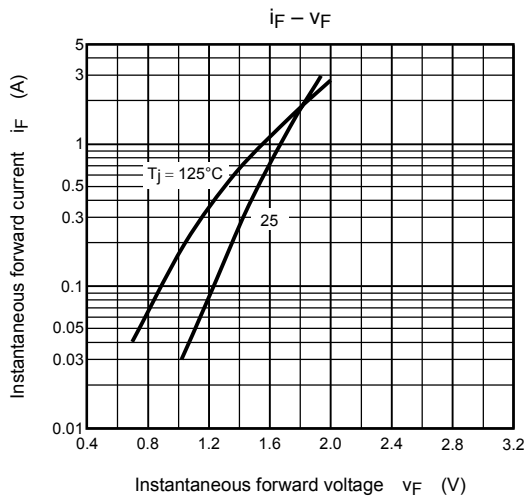
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	V_{FM}	$I_{FM} = 0.5 \text{ A}$	—	—	1.5	V
Repetitive peak reverse current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Reverse recovery time	t_{rr}	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	—	—	4	μs

Marking



Code	Type
F4N	TFR4N
F4T	TFR4T



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000707EAA

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