

TOSHIBA Fast Recovery Diode Silicon Diffused Type

TFR1N, TFR1T

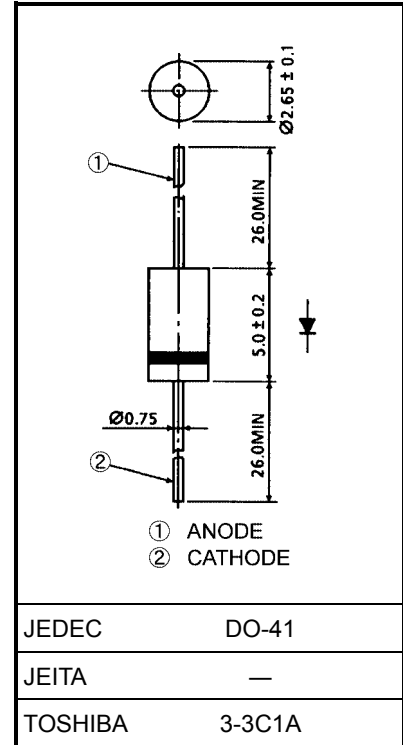
Strobo Flasher Applications (fast recovery)

- Average Forward Current: $I_F (AV) = 0.5 \text{ A}$
- Repetitive Peak Reverse Voltage: $V_{RRM} = 1000, 1500 \text{ V}$
- Reverse Recovery Time: $t_{rr} = 10 \mu\text{s}$

Maximum Ratings

Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	TFR1N	1000	V
	TFR1T	1500	
Average forward current	$I_F (AV)$	0.5	A
I^2t limit value (t = 1 to 10 ms)	I^2t	2	A ² s
Peak one cycle surge forward current (non repetitive)	I_{FSM}	20	A
Junction temperature	T_j	-40 to 125	°C
Storage temperature range	T_{stg}	-40 to 125	°C

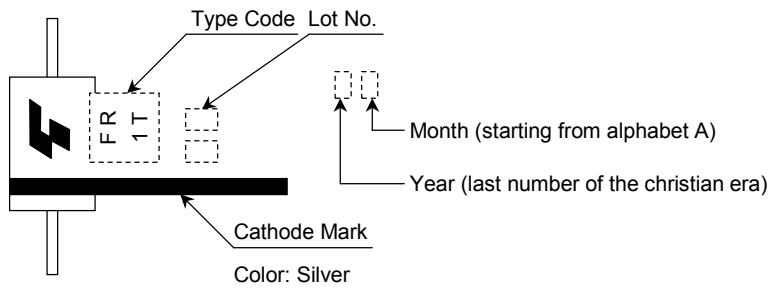
Unit: mm



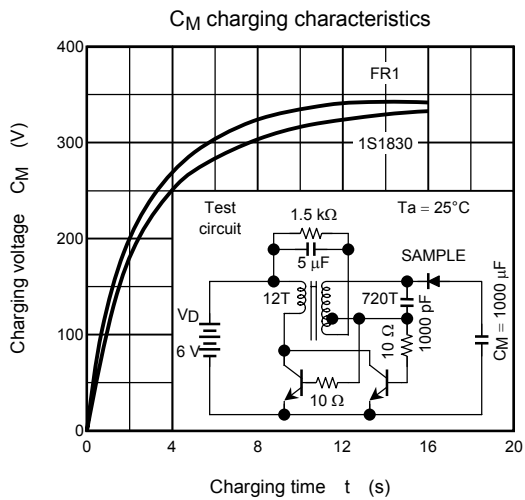
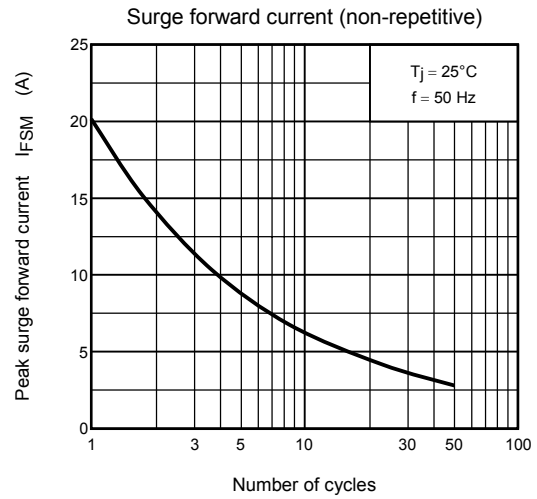
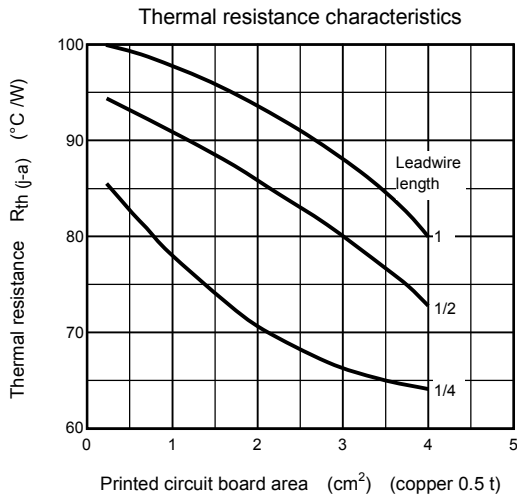
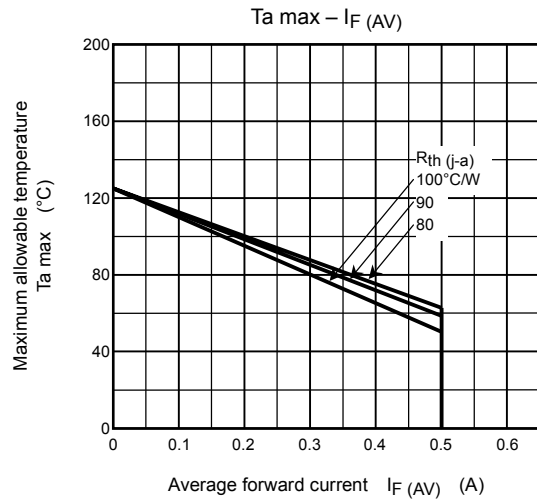
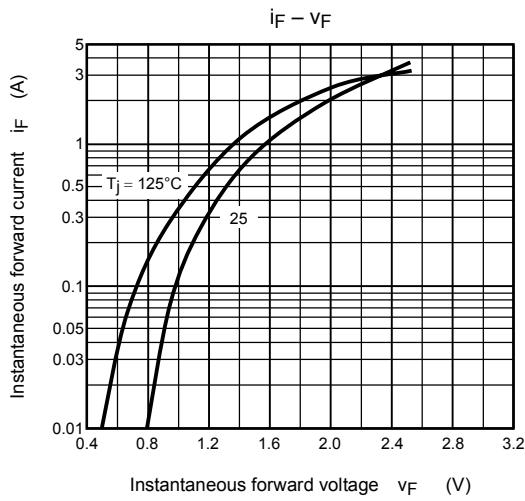
Weight: 0.3 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	V_{FM}	$I_{FM} = 0.5 \text{ A}$	—	—	1.3	V
Repetitive peak reverse current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Reverse recovery time	t_{rr}	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	—	—	10	μs

Marking

Code	Type
FR1N	TFR1N
FR1T	TFR1T



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000707EAA

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