

TOSHIBA Fast Recovery Diode Silicon Diffused Type

# TFR1N, TFR1T

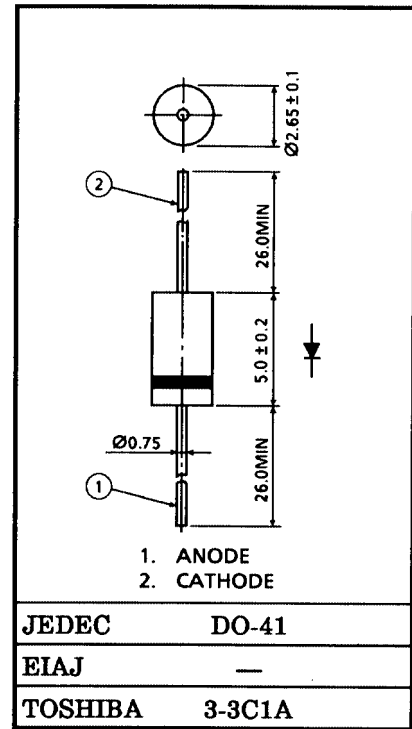
Strobo Flasher Applications (fast recovery)

- 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	$V_{RRM}$	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	$A^2s$
Peak one cycle surge forward current (non repetitive)		$I_{FSM}$	20	A
Junction temperature		$T_j$	-40 to 125	$^{\circ}C$
Storage temperature range		$T_{stg}$	-40 to 125	$^{\circ}C$

Unit in mm



Weight : 0.3 g

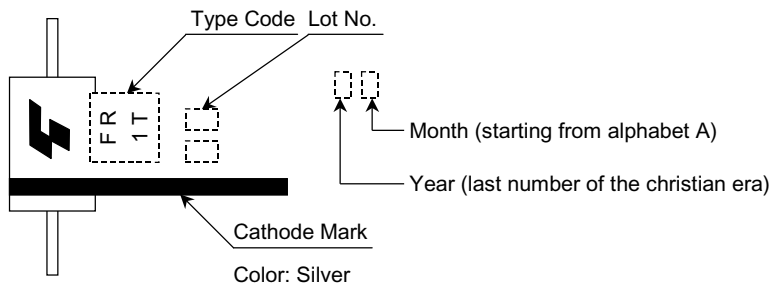
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## Electrical Characteristics (Ta = 25°C)

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	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	—	—	10	$\mu\text{s}$

## Marking



Code	Type
FR1N	TFR1N
FR1T	TFR1T

