

TOSHIBA Fast Recovery Diode Silicon Diffused Type

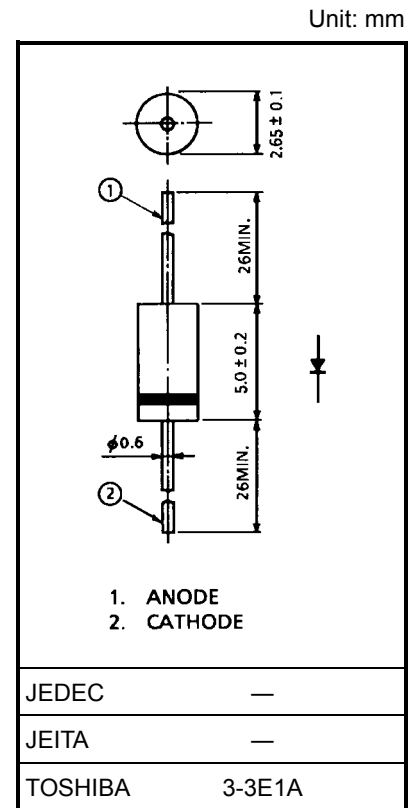
# TFR3N, TFR3T

## Strobo Flasher Applications (fast recovery)

- Average Forward Current:  $I_F (AV) = 0.2 \text{ A}$
- Repetitive Peak Reverse Voltage:  $V_{RRM} = 1000, 1500 \text{ V}$
- Reverse Recovery Time:  $t_{rr} = 1.5 \mu\text{s}$

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

Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	TFR3N	1000	V
	TFR3T	1500	
Average forward current	$I_F (AV)$	0.2	A
$I^2t$ limit value ( $t = 1$ to $10 \text{ ms}$ )	$I^2t$	0.5	$\text{A}^2\text{s}$
Peak one cycle surge forward current (non repetitive)	$I_{FSM}$	10 (50 Hz)	A
		11 (60 Hz)	
Junction temperature	$T_j$	-40 to 125	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-40 to 125	$^\circ\text{C}$

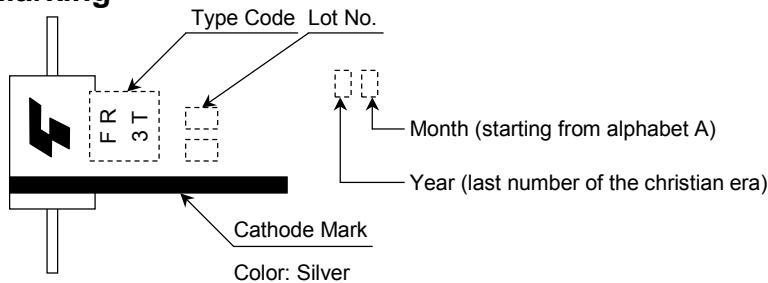


Weight: 0.225 g (typ.)

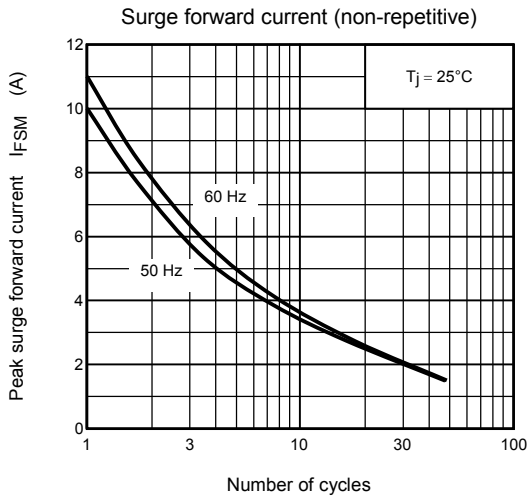
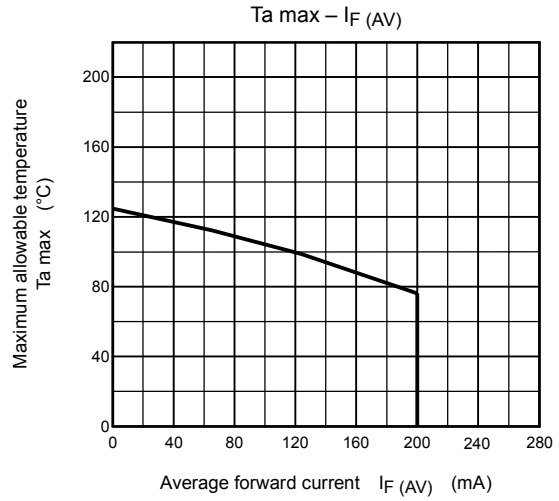
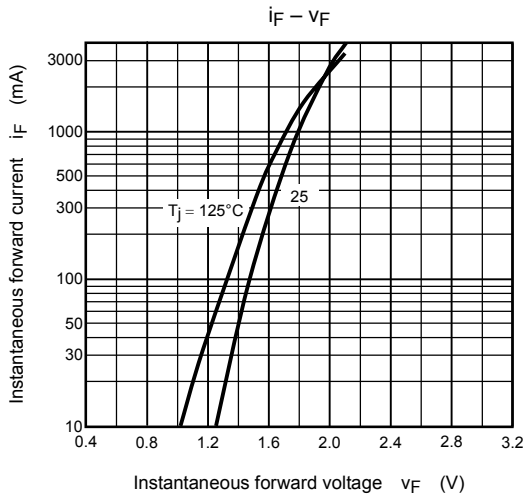
## Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	$V_{FM}$	$I_{FM} = 0.1 \text{ A}$	—	—	1.5	V
Repetitive peak reverse current	$I_{RRM}$	$V_{RRM} = \text{Rated}$	—	—	5	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F = 10 \text{ mA}, I_R = 10 \text{ mA}$	—	—	1.5	$\mu\text{s}$

## Marking



Code	Type
FR3N	TFR3N
FR3T	TFR3T



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000707EAA

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