TOSHIBA Fast Recovery Diode Silicon Diffused Type

TFR3N,TFR3T

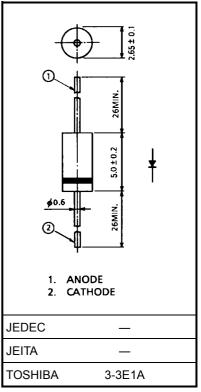
Strobo Flasher Applications (fast recovery)

Unit: mm

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

Maximum Ratings (Ta = 25°C)

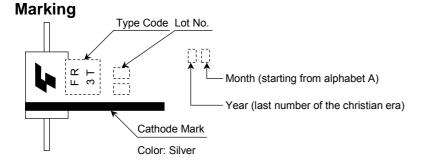
Characteristics		Symbol	Rating	Unit	
Repetitive peak reverse voltage	TFR3N	\/	1000	V	
	TFR3T	V_{RRM}	1500		
Average forward current		I _{F (AV)}	0.2	Α	
I ² t limit value (t = 1 to 10 ms)		l ² t	0.5	A^2s	
Peak one cycle surge forward current (non repetitive)		l=	10 (50 Hz)	А	
		^I FSM	11 (60 Hz)		
Junction temperature		Tj	-40 to 125	°C	
Storage temperature range		T _{stg}	-40 to 125	°C	



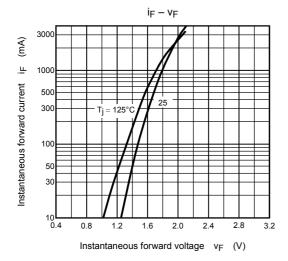
Weight: 0.225 g (typ.)

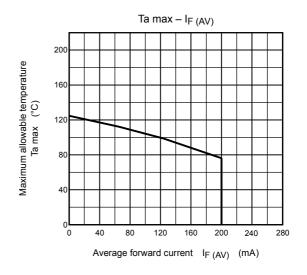
Electrical Characteristics (Ta = 25°C)

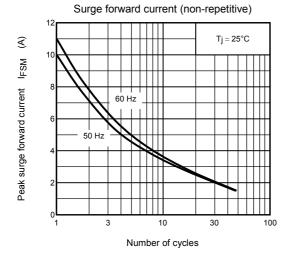
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	V_{FM}	I _{FM} = 0.1 A	_	_	1.5	V
Repetitive peak reverse current	I _{RRM}	V _{RRM} = Rated			5	μΑ
Reverse recovery time	t _{rr}	$I_F = 10 \text{ mA}, I_R = 10 \text{ mA}$			1.5	μS



Code	Туре
FR3N	TFR3N
FR3T	TFR3T







2002-09-18

2

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