

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

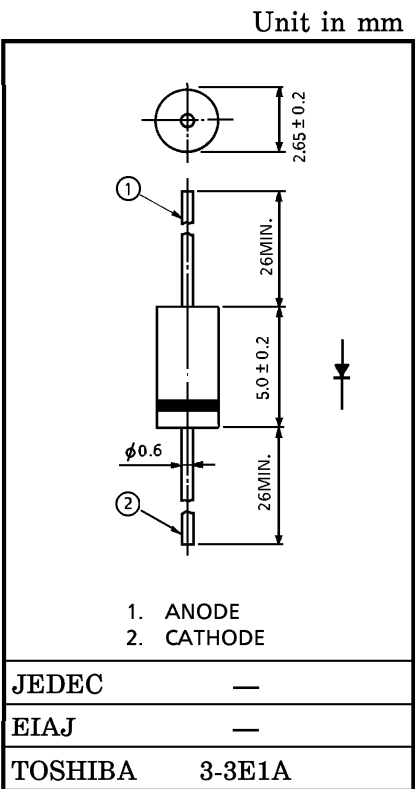
TFR3N, TFR3T

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 : $t_{rr} = 1.5\text{ }\mu\text{s}$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	TFR3N	V _{RRM}	1000	V	
	TFR3T		1500		
Average Forward Current		I _F (AV)	0.2	A	
I ² t Limit Value (t = 1~10 ms)		I ² t	0.5	A ² s	
Peak One Cycle Surge Forward Current (Non Repetitive)		I _{FSM}	10 (50 Hz)	A	
			11 (60 Hz)		
Junction Temperature		T _j	−40~125	°C	
Storage Temperature Range		T _{stg}	−40~125	°C	

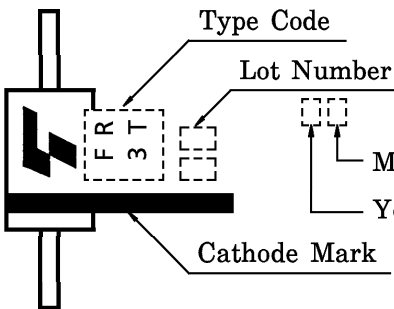


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Weight : 0.225 g

CHARACTERISTIC	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	μA
Reverse Recovery Time	t_{rr}	$I_F = 10\text{ mA}, I_R = 10\text{ mA}$	—	—	1.5	μs

MARKING



Color : Silver

Month (Starting from Alphabet A)
Year (Last Number of the Christian Era)

CODE	TYPE
FR3N	TFR3N
FR3T	TFR3T

961001EAA2

- TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.

