TOSHIBA

TOSHIBA FAST RECOVERY DIODE SILICON DIFFUSED TYPE

TFR3N, TFR3T

STROBO FLASHER APPLICATIONS (FAST RECOVERY)

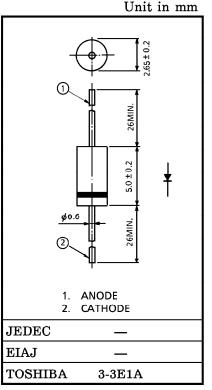
• Average Forward Current : $I_{F(AV)} = 0.2A$

Repetitive Peak Reverse Voltage: VRRM=1000, 1500V

• Reverse Recovery Time : $t_{rr} = 1.5 \mu s$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Repetitive Peak Reverse	TFR3N	37	1000	V	
Voltage	TFR3T	V_{RRM}	1500		
Average Forward Current	I _{F (AV)}	0.2	A		
I ² t Limit Value (t=1~10ms)		I^2t	0.5	A^2s	
Peak One Cycle Surge Forward		T	10 (50Hz)	_	
Current (Non Repetitive)		I_{FSM}	11 (60Hz)	A	
Junction Temperature	Tj	-40~125	°C		
Storage Temperature Range		$\mathrm{T_{stg}}$	-40~125	$^{\circ}\mathrm{C}$	

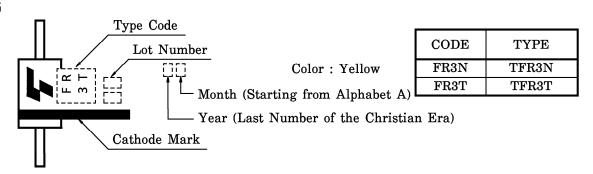


Weight: 0.225g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

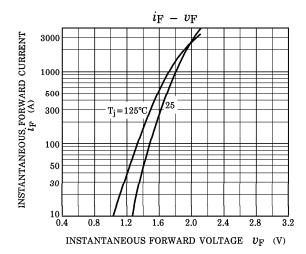
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{\mathbf{FM}}$	$I_{\text{FM}} = 0.1 A$	_	_	1.5	V
Repetitive Peak Reverse Current	I_{RRM}	V _{RRM} =Rated	_	_	5	μ A
Reverse Recovery Time	t _{rr}	I _F =10mA, I _R =10mA	_	_	1.5	μs

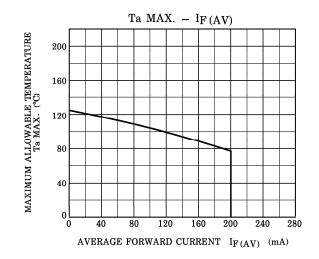
MARKING

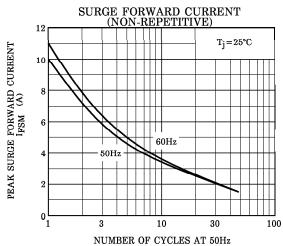


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