

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

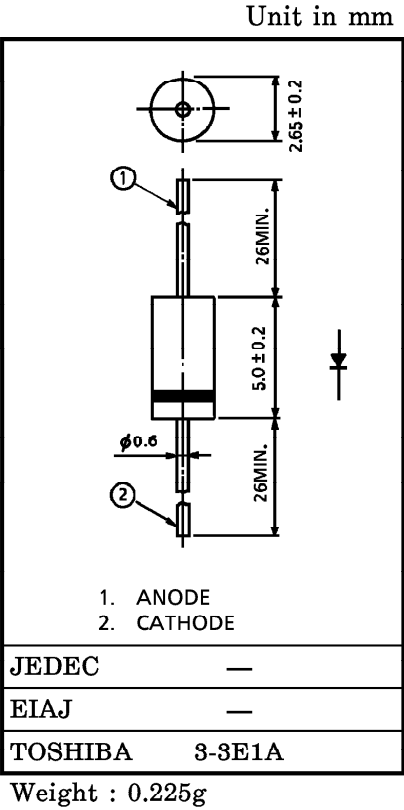
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HIGH SPEED RECTIFIER APPLICATIONS
(FAST RECOVERY)

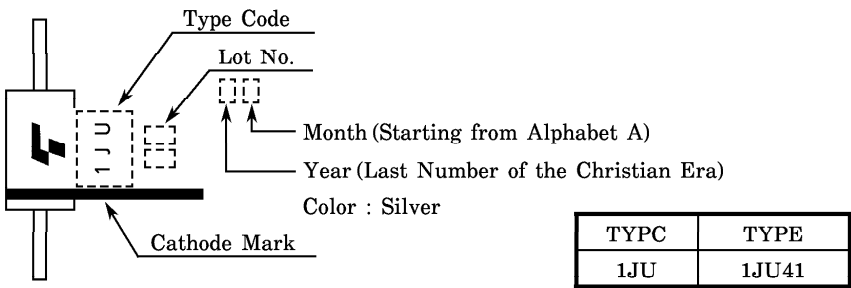
- Average Forward Current : $I_F(AV)=1.0A$
- Repetitive Peak Reverse Voltage : $V_{RRM}=600V$
- Reverse Recovery Time : $t_{rr}=100ns$ (Max.)
- Plastic Mold Type.

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Forward Current	$I_F(AV)$	1.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	30 (50Hz) 33 (60Hz)	A
Junction Temperature	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C



MARKING



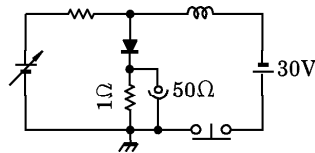
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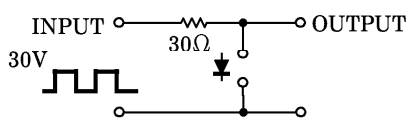
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$V_{FM}=1.0A$	—	—	2.0	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=600V$	—	—	100	μA
Reverse Recovery Time (Note 1)	t_{rr}	$I_F=1.0A, di/dt = -30A/\mu s$	—	—	100	ns
Forward Recovery Time (Note 2)	t_{fr}	$I_F=1.0A$	—	—	250	ns

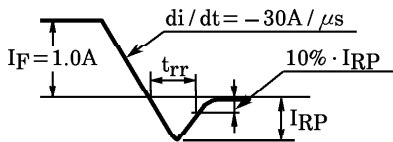
Note 1 : t_{rr} TEST CIRCUIT



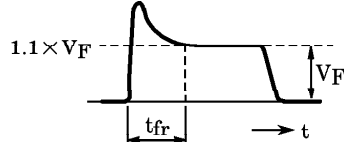
Note 2 : t_{fr} TEST CIRCUIT



WAVEFORM



WAVEFORM



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