

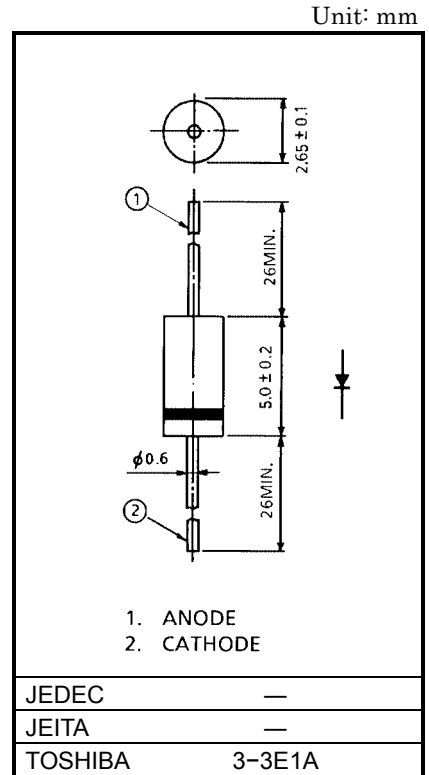
# 1JU41

## 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.

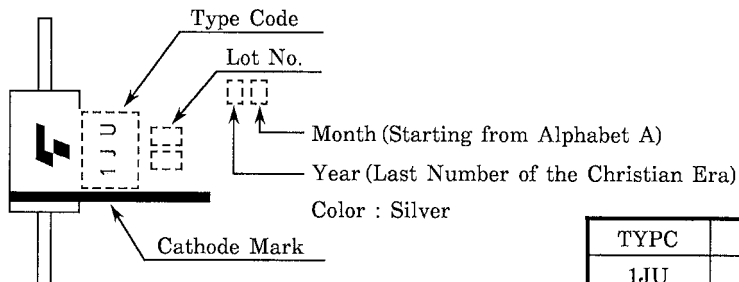
## MAXIMUM RATINGS (Ta = 25°C)

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)	A
		33 (60Hz)	
Junction Temperature	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C



Weight: 0.225g

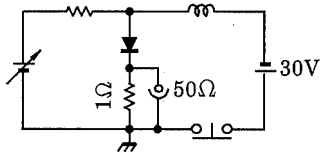
## MARKING



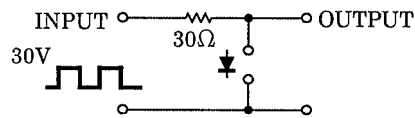
## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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	$\mu A$
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

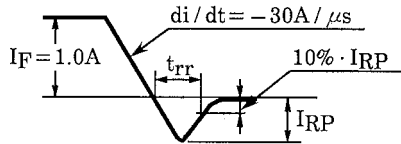
Note 1:  $t_{rr}$  TEST CIRCUIT



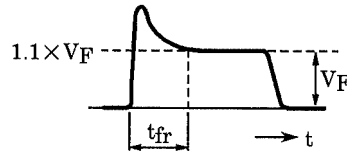
Note 2:  $t_{fr}$  TEST CIRCUIT

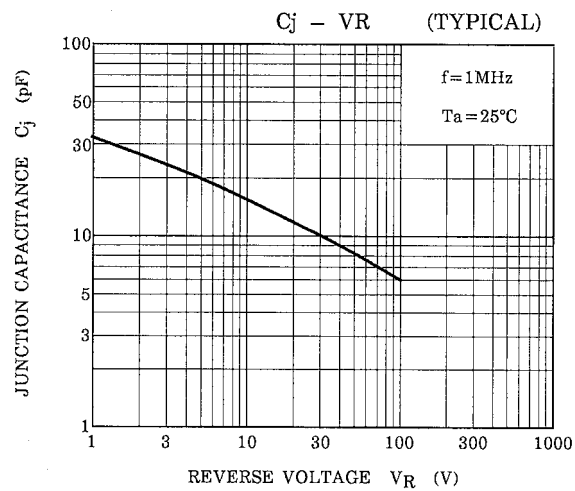
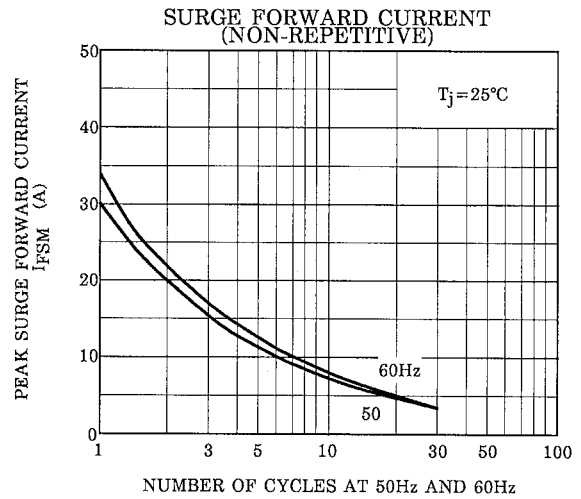
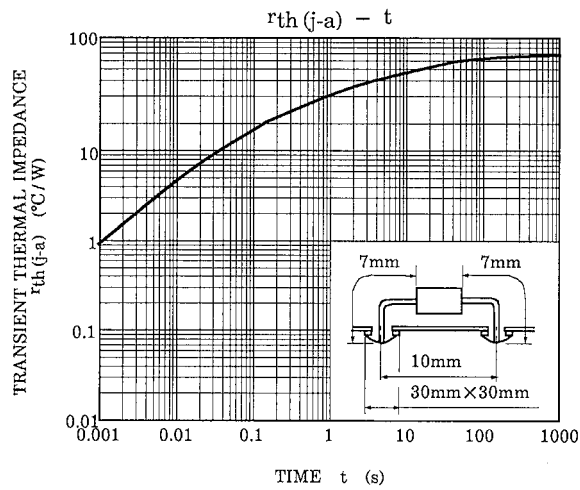
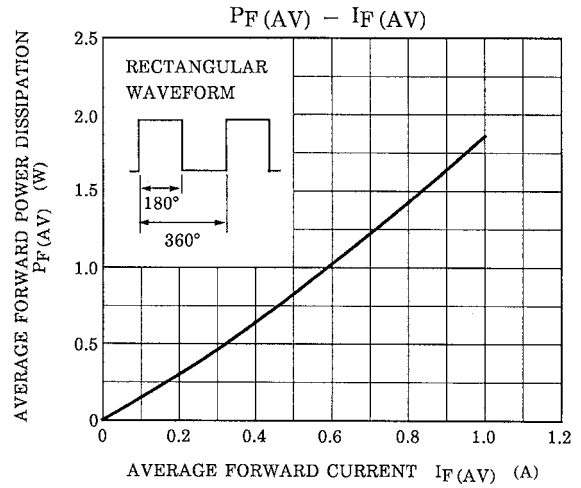
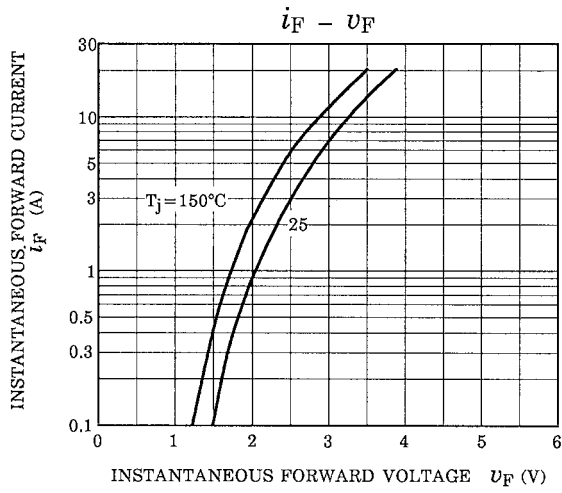


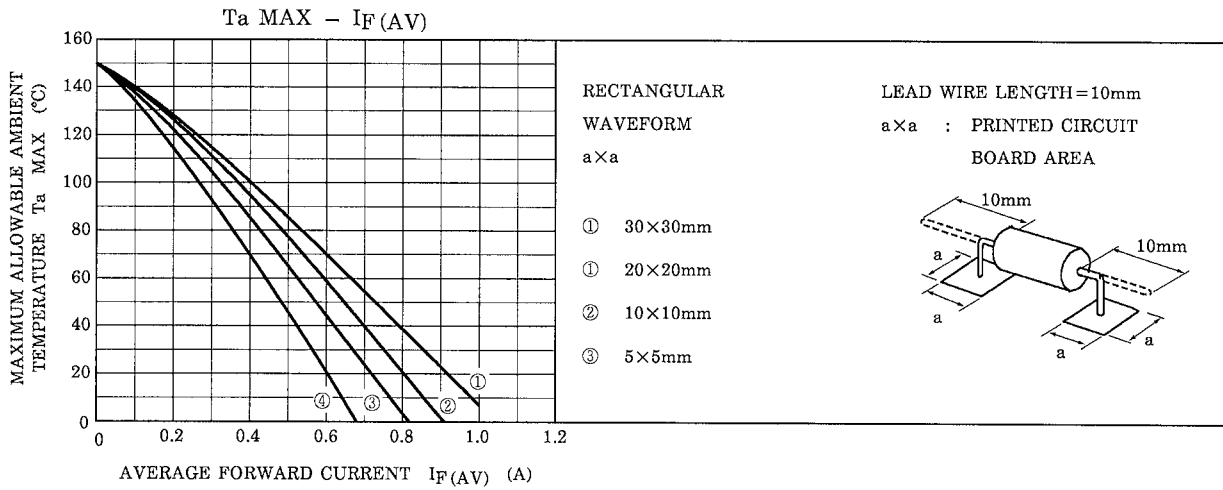
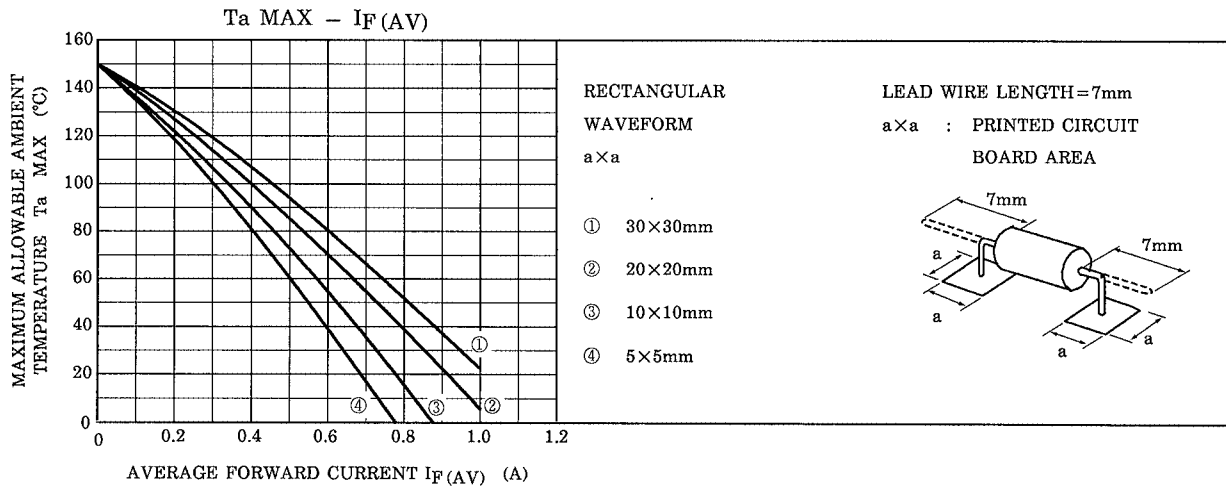
WAVEFORM



WAVEFORM







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