

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

# 1JU42

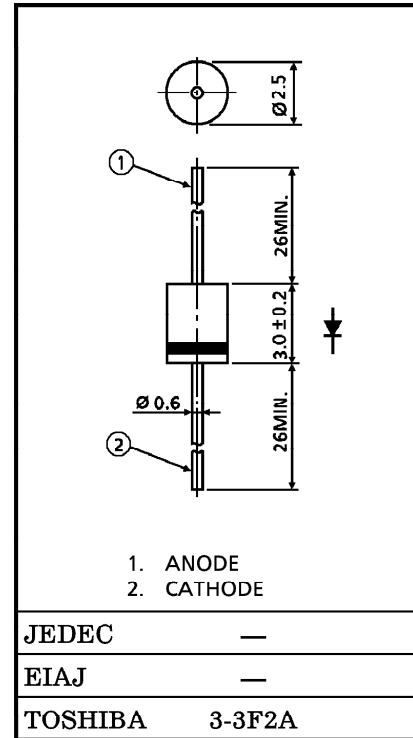
HIGH SPEED RECTIFIER APPLICATIONS  
(FAST RECOVERY)

Unit in mm

- Average Forward Current :  $I_F(AV) = 1.0A$
- Repetitive Peak Reverse Voltage :  $V_{RRM} = 400V$
- 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)	$I_{FSM}$	15 (50Hz)	A
		17 (60Hz)	
Junction Temperature Range	$T_j$	-40~150	°C
Storage Temperature Range	$T_{stg}$	-40~150	°C

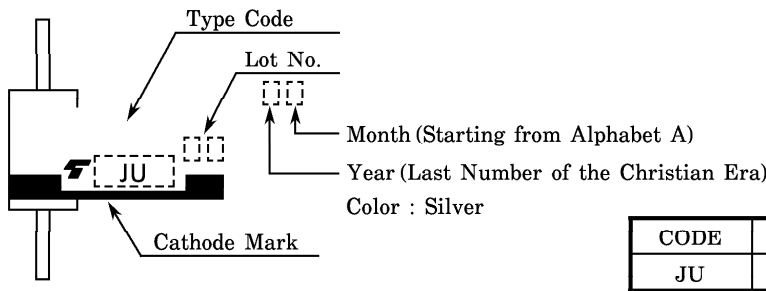


Weight : 0.18g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

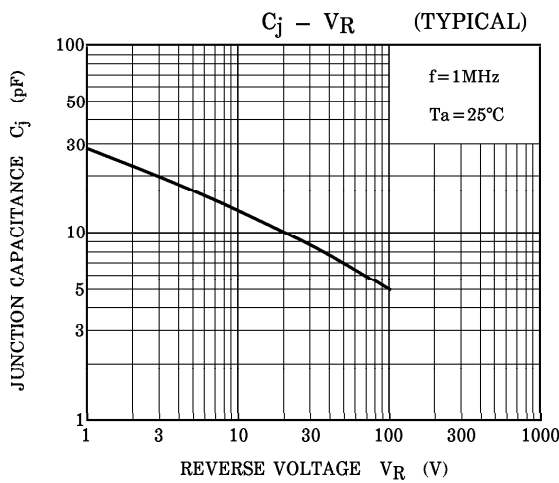
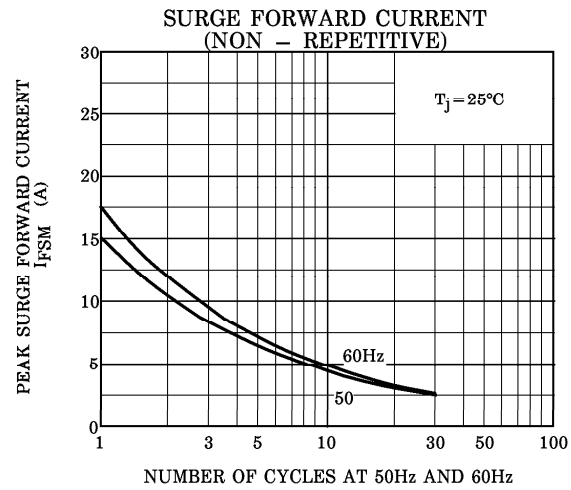
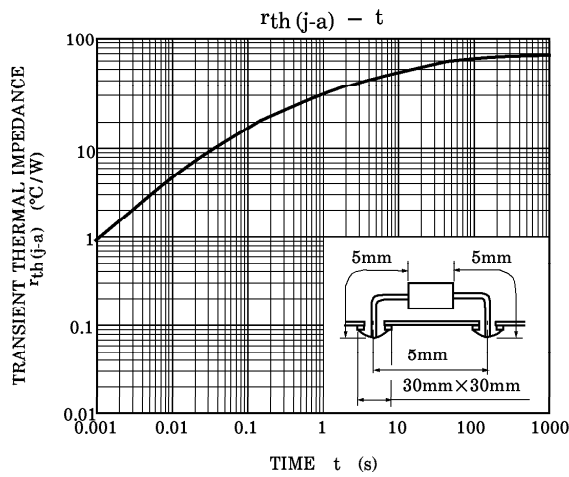
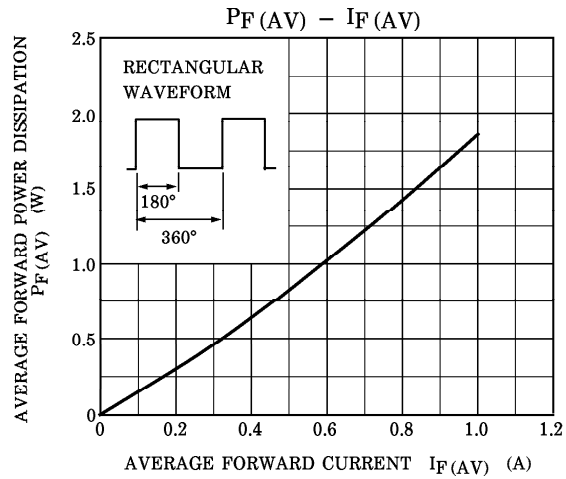
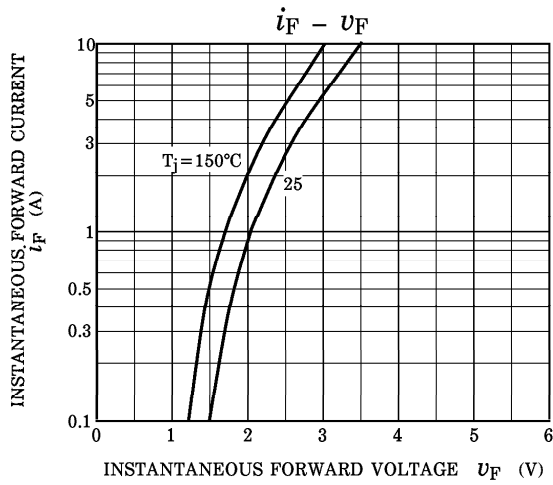
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 1.0A$	—	2.0	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = 600V$	—	100	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = 1.0A, di/dt = -30A/\mu s$	—	100	ns
Forward Recovery Time	$t_{fr}$	$I_F = 1.0A$	—	250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

Marking



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