

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

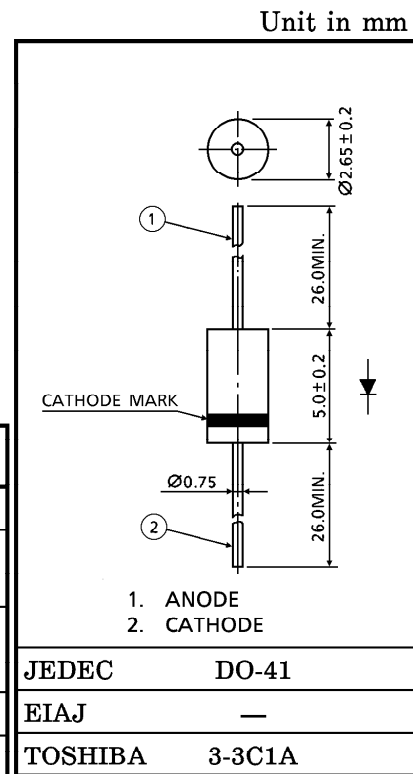
# OR8GU41

HIGH SPEED RECTIFIER APPLICATIONS  
(FAST RECOVERY)

- Average Forward Current :  $I_F (AV) = 0.8A (T_a = 40^\circ C)$
- Repetitive Peak Reverse Voltage :  $V_{RRM} = 200 \sim 400V$
- Reverse Recovery Time :  $t_{rr} = 100ns (Max.)$
- Plastic Mold Type.

**MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	V
Average Forward Current ( $T_a = 40^\circ C$ )	$I_F (AV)$	0.8	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



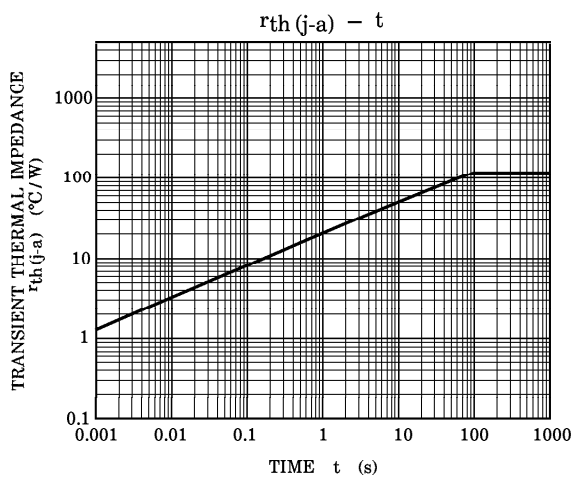
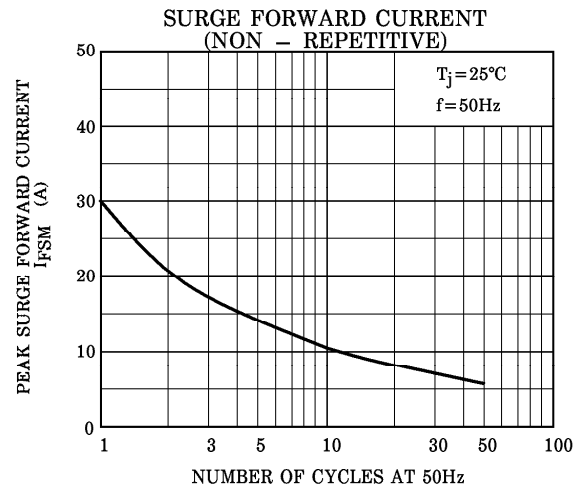
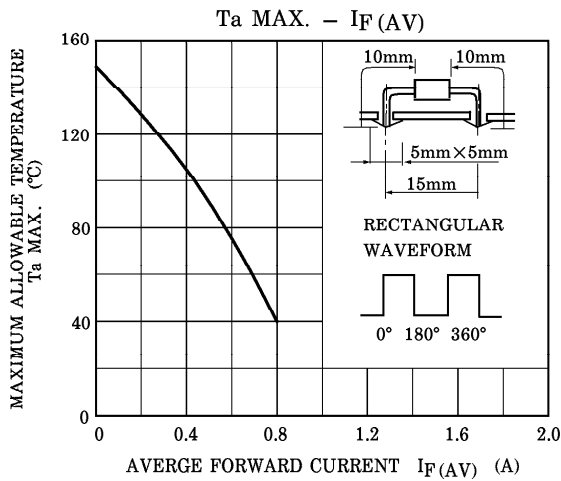
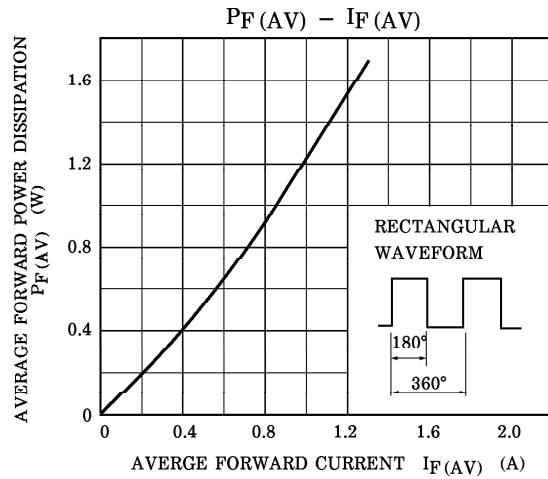
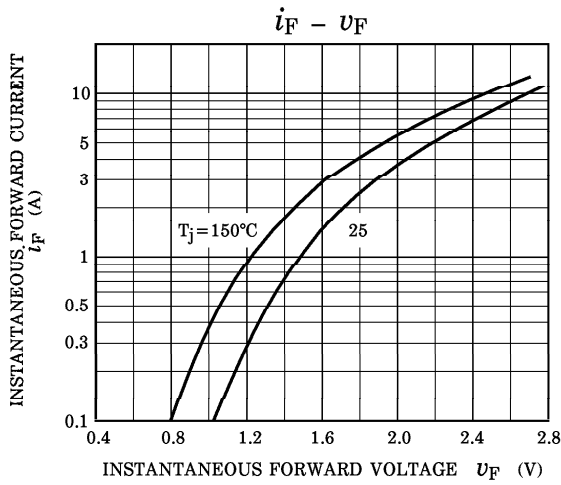
Weight : 0.3g

**ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 1.0A$	—	1.5	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = 400V$	—	50	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = 1.0A, di/dt = -30A/\mu s$	—	100	ns
Forward Recovery Time	$t_{fr}$	$I_F = 1.0A$	—	200	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	—	115	°C/W
Thermal Resistance	$R_{th(j-l)}$	Junction to Lead	—	45	°C/W

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