

TOSHIBA Fast Recovery Diode Silicon Diffused Type

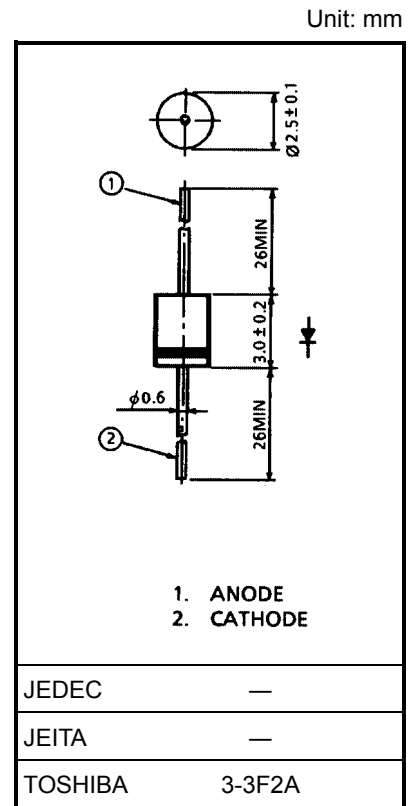
# TVR5B,TVR5G,TVR5J

## TV Applications (fast recovery)

- Average Forward Current:  $I_F (AV) = 0.5 \text{ A}$
- Repetitive Peak Reverse Voltage:  $V_{RRM} = 100 \text{ V}, 400\text{V}, 600\text{V}$
- Reverse Recovery Time:  $t_{rr} = 1.5 \mu\text{s}$

## Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit
Repetitive peak reverse voltage	TVR5B	$V_{RRM}$	100	V
	TVR5G		400	
	TVR5J		600	
Average forward current		$I_F (AV)$	0.5	A
Peak one cycle surge forward current (non repetitive)		$I_{FSM}$	20	A
Junction temperature		$T_j$	-40 to 125	°C
Storage temperature range		$T_{stg}$	-40 to 125	°C

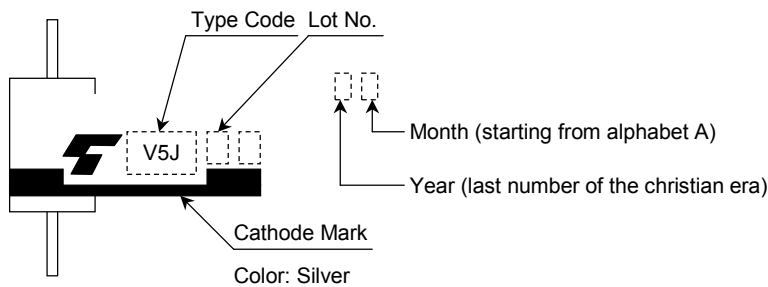


## Electrical Characteristics (Ta = 25°C)

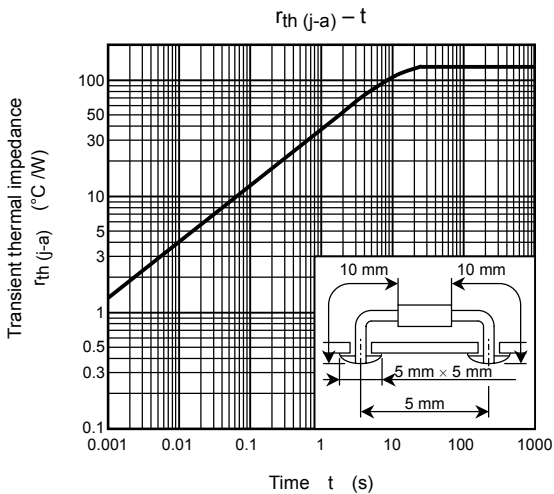
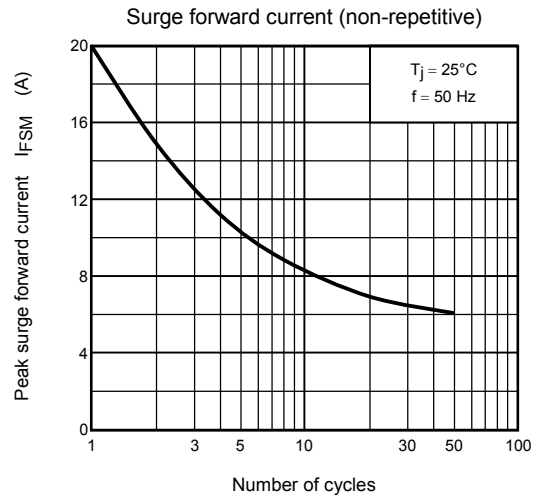
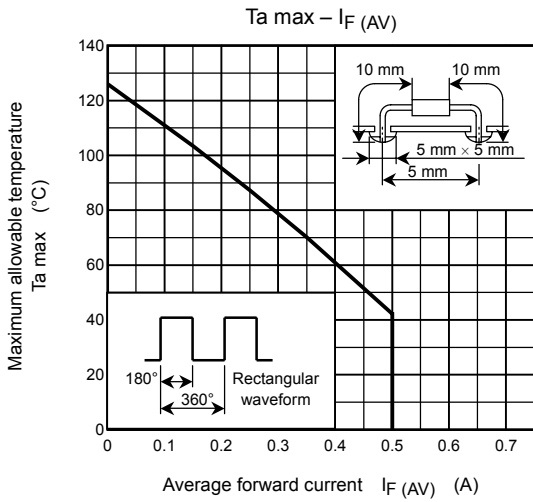
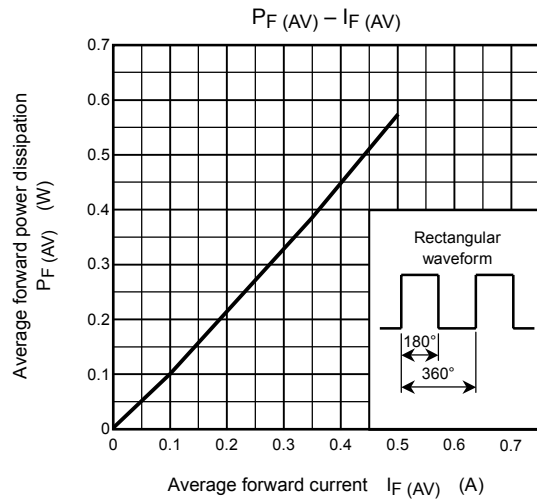
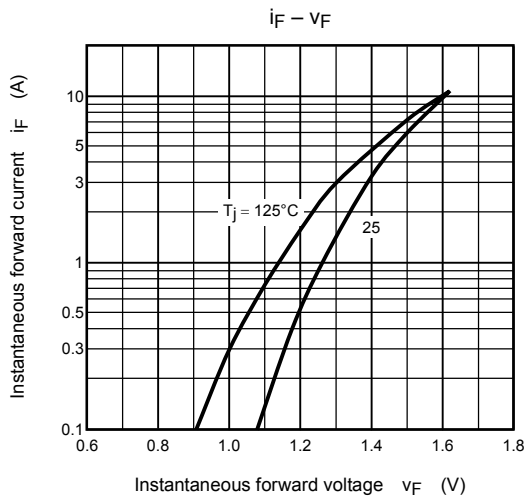
Weight: 0.18 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	$V_{FM}$	$I_{FM} = 0.5 \text{ A}$	—	—	1.2	V
Repetitive peak reverse current	$I_{RRM}$	$V_{RRM} = \text{Rated}$	—	—	10	$\mu\text{A}$
Reverse recovery time	$t_{rr} (1)$	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	—	—	1.5	$\mu\text{s}$
	$t_{rr} (2)$	$I_F = 100 \text{ mA}, I_R = 100 \text{ mA}$	—	—	500	$\mu\text{s}$

## Marking



Code	Type
V5B	TVR5B
V5G	TVR5G
V5J	TVR5J



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000707EAA

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