

TOSHIBA Fast Recovery Diode Silicon Diffused Type

TVR5B,TVR5G,TVR5J

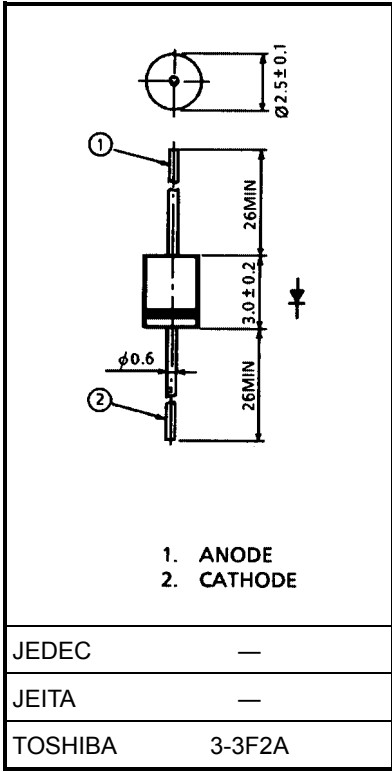
TV Applications (fast recovery)

Unit: mm

- 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: $t_{rr} = 1.5 \text{ } \mu\text{s}$

Maximum Ratings ($T_a = 25^\circ\text{C}$)

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	$^\circ\text{C}$
Storage temperature range		T_{stg}	-40 to 125	$^\circ\text{C}$

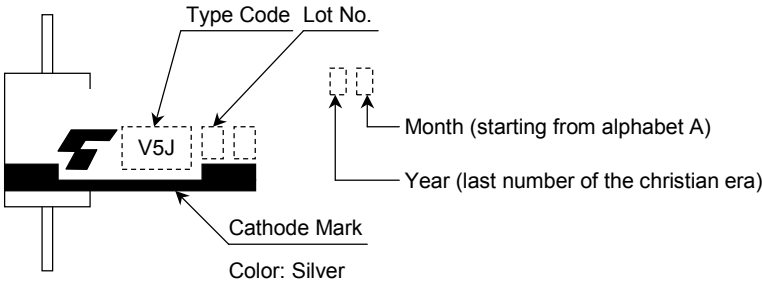


Electrical Characteristics ($T_a = 25^\circ\text{C}$)

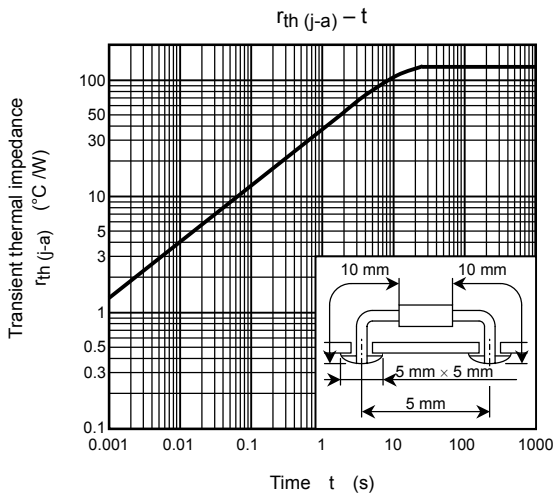
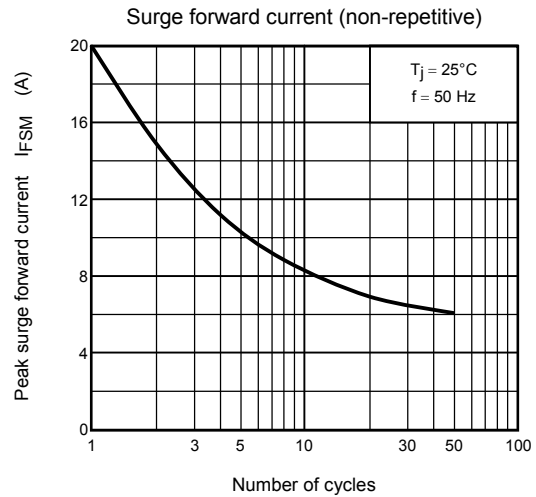
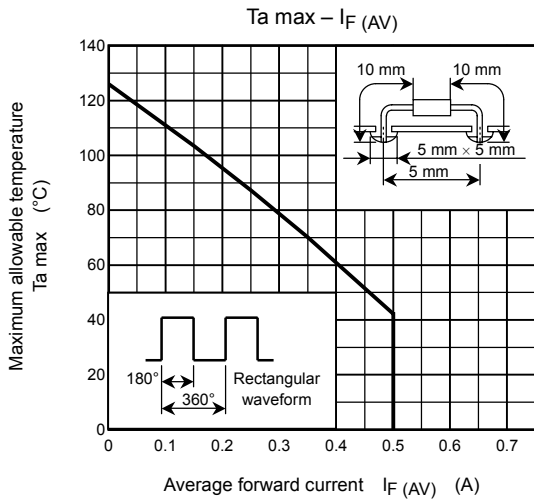
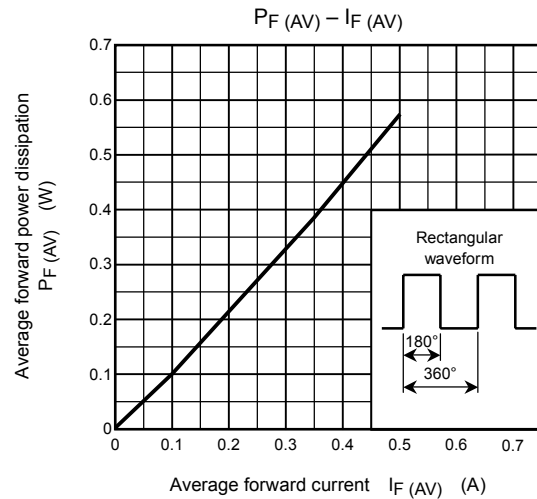
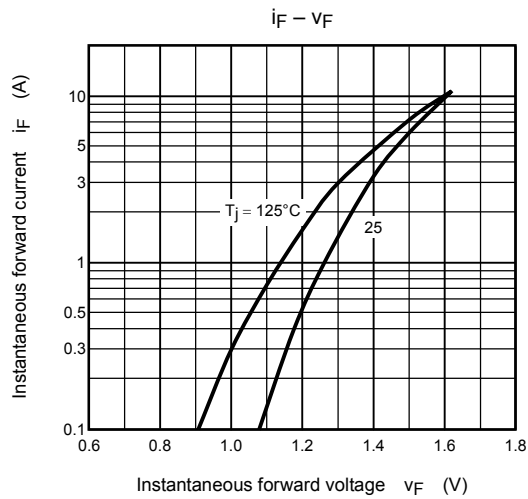
Weight: 0.18 g (typ.)

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	μA
Reverse recovery time	$t_{rr} (1)$	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	—	—	1.5	μs
	$t_{rr} (2)$	$I_F = 100 \text{ mA}, I_R = 100 \text{ mA}$	—	—	500	μs

Marking



Code	Type
V5B	TVR5B
V5G	TVR5G
V5J	TVR5J



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000707EAA

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