TOSHIBA Fast Recovery Diode Silicon Diffused Type

TVR4J,TVR4N

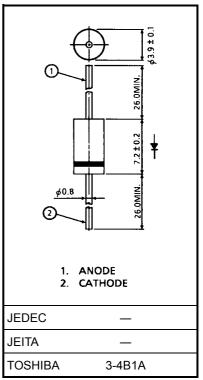
High Speed Rectifier Applications (fast recovery)

Unit: mm

- Repetitive Peak Reverse Voltage: $V_{RRM} = 600$, 1000 V
- Average Forward Current: $I_{F(AV)} = 1.2 \text{ A (Ta} = 55^{\circ}\text{C)}$
- Reverse Recovery Time: t_{rr} = 20 μs
- Plastic Mold Type.

Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Repetitive peak reverse voltage	TVR4J	V_{RRM}	600	V	
	TVR4N	V RRM	1000		
Average forward current (Ta = 55°C)		I _{F (AV)}	1.2	Α	
Peak one cycle surge forward current (non repetitive)		I _{FSM}	100 (50 Hz)	Α	
Junction temperature		Tj	-40 to 150	°C	
Storage temperature range		T _{stg}	-40 to 150	°C	



Weight: 0.47 g (typ.)

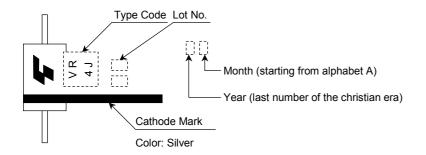
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	V_{FM}	I _{FM} = 5 A	_	_	1.2	V
Repetitive peak reverse current	I _{RRM}	V _{RRM} = Rated	_	_	10	μА
Reverse recovery time	t _{rr}	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	_	_	20	μS
Thermal resistance (junction to ambient)	R _{th (j-a)}	DC	_	_	80	°C/W

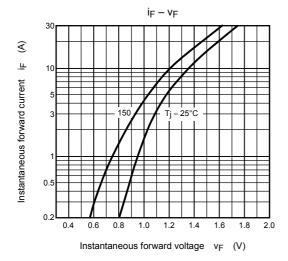
Note1: Soldering: 5 mm is the minimum to be kept between case and soldering part.

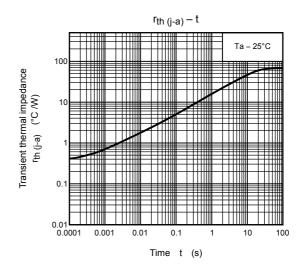
Note2: Lead bending: 5 mm is the minimum to be kept from the case when bend the lead wire.

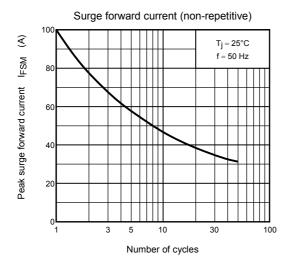
Marking

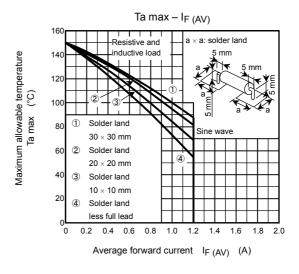


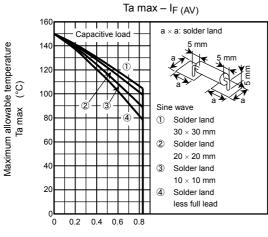
Code	Туре
VR4J	TVR4J
VR4N	TVR4N











Average forward current $I_{F(AV)}$ (A)

2002-09-18

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