



# TVR2B/D/G/J

# FAST RECOVERY RECTIFIER DIODES

**PRV : 100 - 600 Volts**

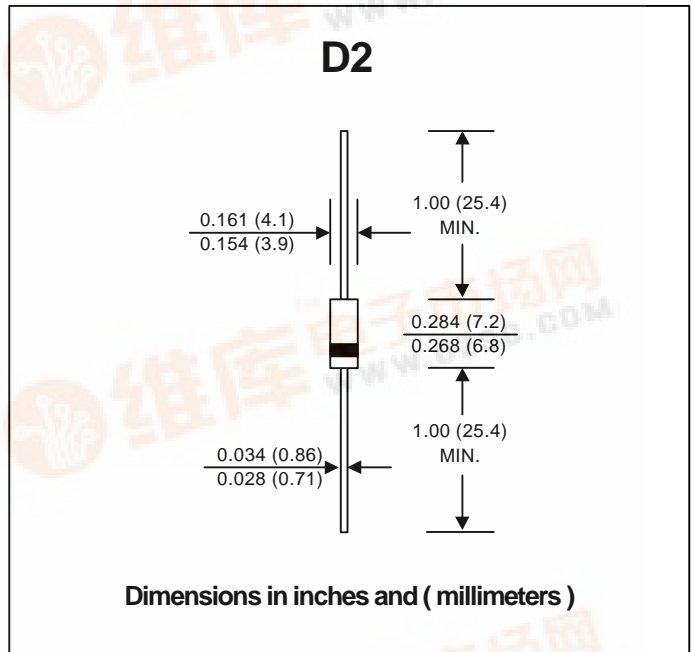
**Io : 0.5 Ampere**

### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* Pb / RoHS Free

### MECHANICAL DATA :

- \* Case : D2 Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.465 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

RATING	SYMBOL	TVR2B	TVR2D	TVR2G	TVR2J	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	400	600	V
Maximum Reverse Voltage (DC)	VR	50	100	300	500	V
Maximum Average Forward Current	IF(AV)	0.5				A
Maximum Peak One Cycle Surge Forward Current ( Non-repetitive )	IFSM	30 (50Hz)				A
Maximum Peak Forward Voltage at IF = 1.0 A	VF	1.4				V
Maximum Repetitive Reverse Current at VRRM	IRRM	10				μA
Maximum Reverse Recovery Time (Note 1)	Trr	20				μs
Junction Temperature Range	TJ	- 40 to + 125				°C
Storage Temperature Range	TSTG	- 40 to + 125				°C



(1) Reverse Recovery Test Conditions : IF = 20 mA, IR = 1 mA.

## RATING AND CHARACTERISTIC CURVES (TVR2B/D/G/J)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

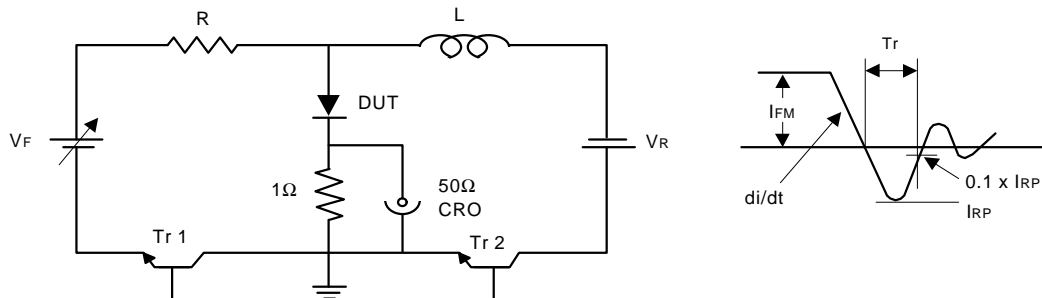


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

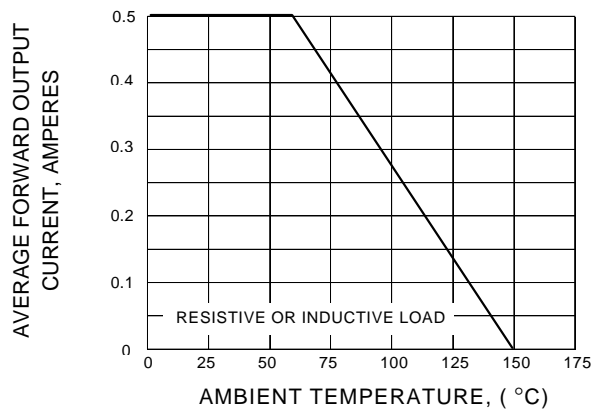


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

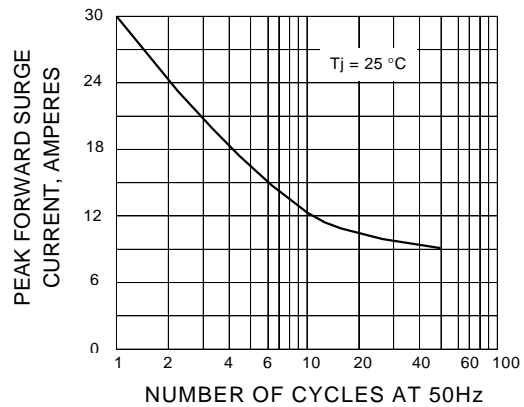


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

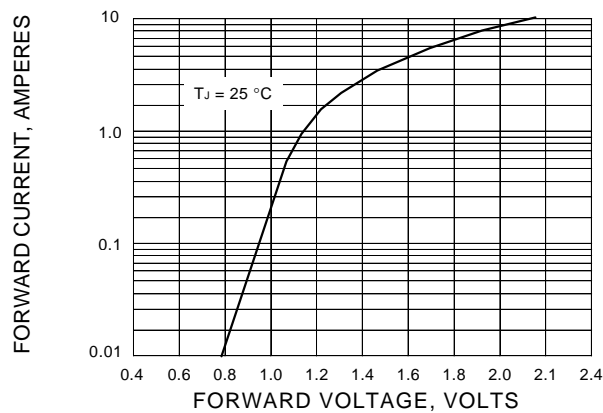


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

