

TVR2B/D/G/J

PRV : 100 - 600 Volts

Io : 0.5 Ampere

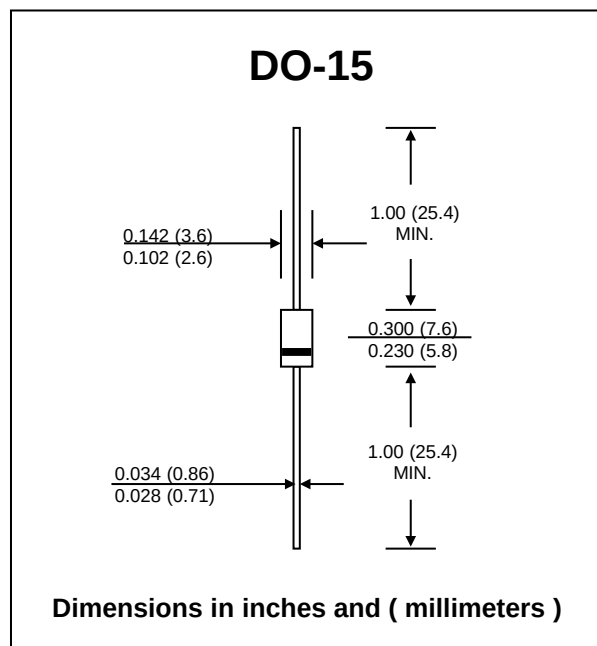
FEATURES :

- * 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 : DO-15 Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.4 gram

FAST RECOVERY RECTIFIER DIODES



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	V _{RRM}	100	200	400	600	V
Maximum Reverse Voltage (DC)	V _R	50	100	300	500	V
Maximum Average Forward Current	I _{F(AV)}	0.5				A
Maximum Peak One Cycle Surge Forward Current (Non-repetitive)	I _{FSM}	30 (50Hz)				A
Maximum Peak Forward Voltage at I _F = 1.0 A	V _F	1.4				V
Maximum Repetitive Reverse Current at V _{RRM}	I _{RRM}	10				μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	20				μs
Junction Temperature Range	T _J	- 40 to + 125				°C
Storage Temperature Range	T _{STG}	- 40 to + 125				°C

Note:

(1) Reverse Recovery Test Conditions : I_F = 20 mA, I_R = 1 mA.

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

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

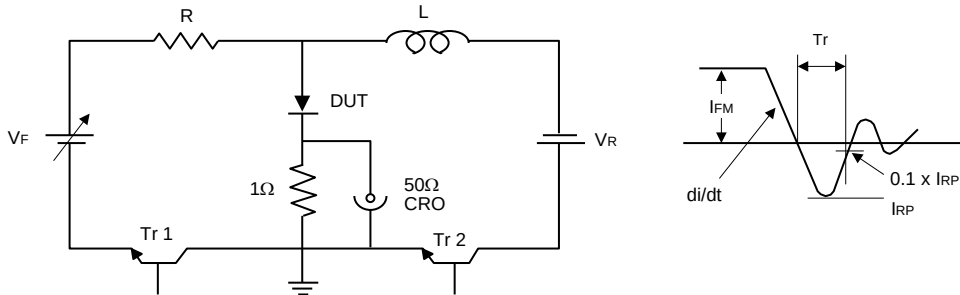


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

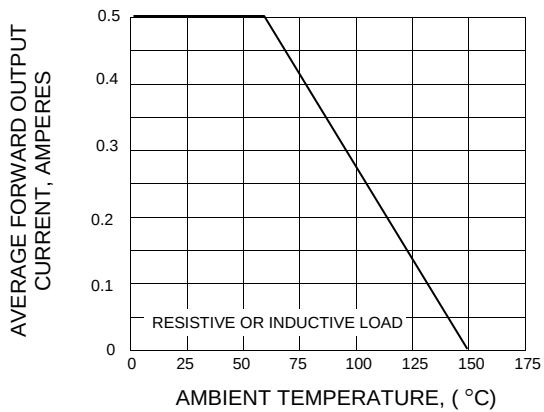


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

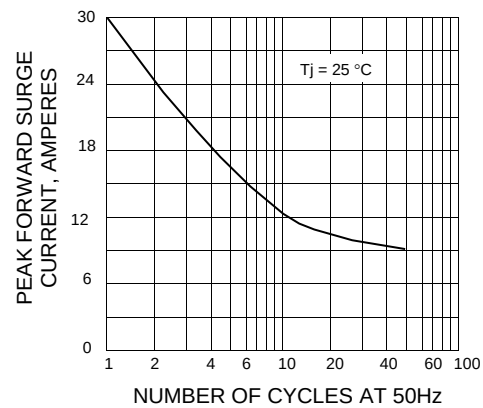


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

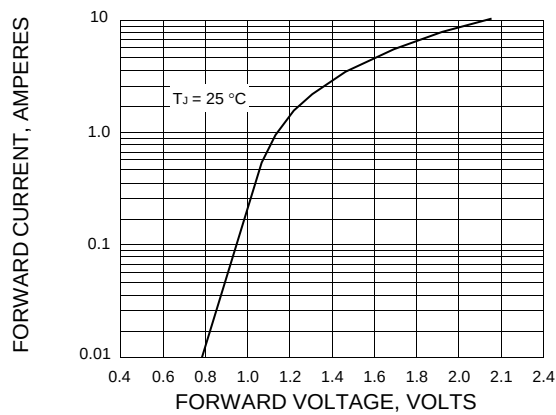


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

