

VOLTAGE RANGE: 100 - 600V

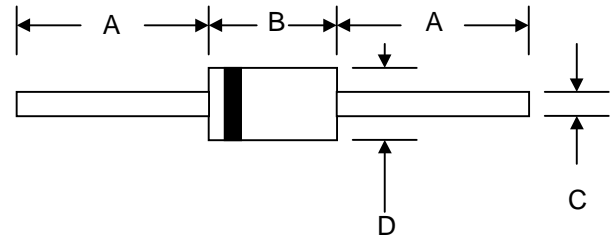
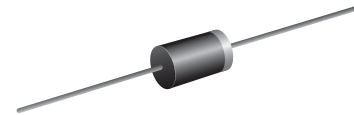
CURRENT: 0.5 A

Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Fast switching for high efficiency

Mechanical Data

- Case : DO-41 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: 0.35 grams (approx.)



DO-41		
Dim	Min	Max
A	25.4	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	TVR1B	TVR1G	TVR1J	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	400	600	V
Maximum Average Forward Current	I _{F(AV)}	0.5			A
Maximum Peak One Cycle Surge Forward Current (Non-repetitive)	I _{FSM}	10 (50 Hz)			A
Maximum Peak Forward Voltage at I _F = 0.5 A	V _F	1.2			V
Maximum Repetitive Reverse Current at V _{RRM}	I _{RRM}	10			μA
Maximum Reverse Recovery Time	T _{rr(1)}	300 (Typ.)			ns
	T _{rr(2)}	75			ns
Junction Temperature Range	T _J	- 40 to + 125			°C
Storage Temperature Range	T _{STG}	- 40 to + 125			°C

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 100 mA, I_R = 100 mA.
- (2) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.

RATING AND CHARACTERISTIC CURVES (TVR1B/G/J)

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

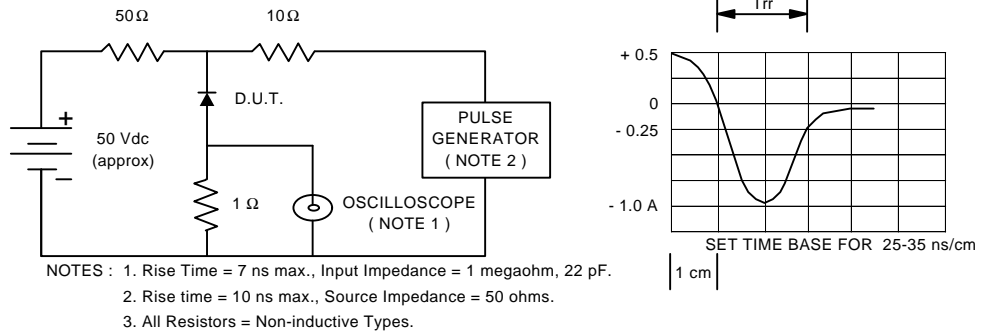


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

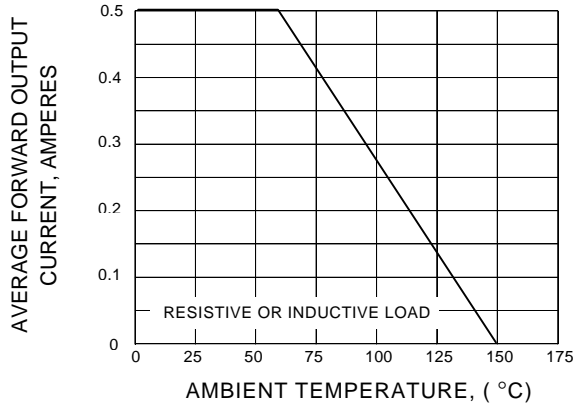


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

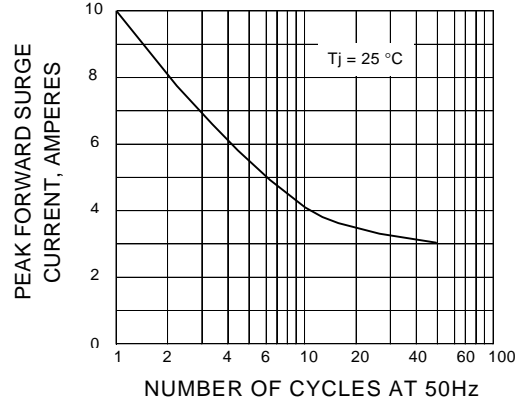


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

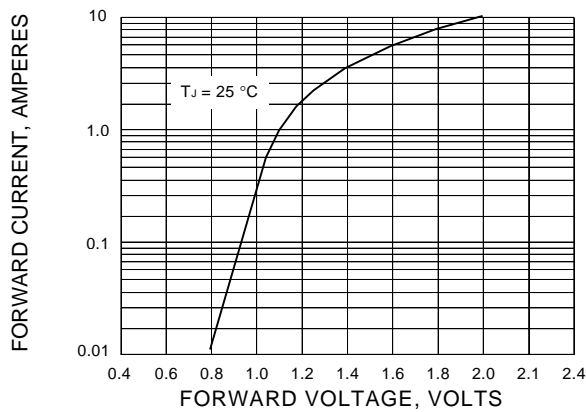


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

