

TVR06J

PRV : 600 Volts lo : 0.6 Ampere

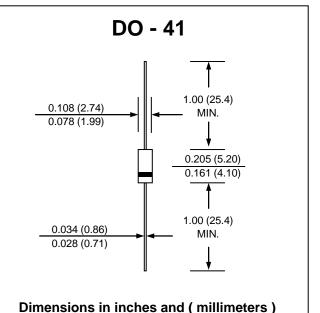
FEATURES :

- * Glass passivated chip junction
- * High surge current capability
- * High reliability
- * Low reverse current
- * Fast switching for high efficiency
- * Pb Free / RoHS Compliance

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 : 0.339 gram

FAST RECOVERY RECTIFIER



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	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Current	I _{F(AV)}	0.6	А
3/8" Lead Length at Ta = 55 °C			
Peak Forward Surge Current, 8.3ms Single	I _{FSM}	30	А
half sine wave Superimposed on rated load			
Maximum Peak Forward Voltage at $I_F = 0.6 A$	V _F	1.3	V
Maximum Full load Reverse Current, Full Cycle Average	I _{R(AV)}	100	μA
Full Cycle Average at Ta = 55°C			
Maximum DC Reverse Current Ta = 25 °C	I _R	5.0	μA
at Rated DC Blocking Voltage Ta = 125 °C	I _{R(H)}	100	μA
Maximum Reverse Recovery Time (Note 1)	Trr	250	ns
Typical Junction Capacitance (Note 2)	CJ	15	pf
Typical Thermal Resistance (Note 3)	R _{0JA}	55	°C/W
Operating Junction Temperature Range	TJ	- 65 to + 175	°C
Storage Temperature Range	T _{STG}	- 65 to + 175	°C

Notes :

(1) Reverse Recovery Test Conditions IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC

(3) Thermal Resistance from Junction to Ambient at 3/8" Lead Lengths, P.C. Board Mounted.



