

HVR670HVF

PRV : 7000 Volts
Io : 6 Amperes

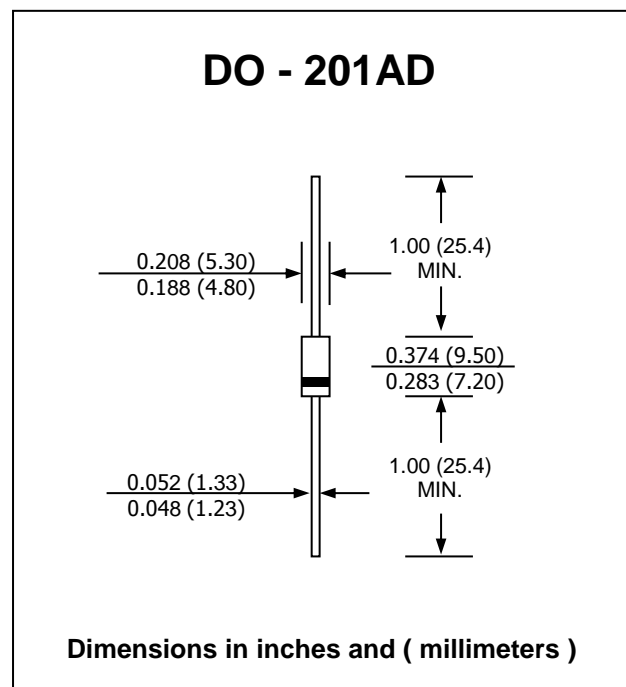
FEATURES :

- * Glass passivated junction chip
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * High forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-201AD 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 : 1.21 grams

GLASS PASSIVATED HIGH VOLTAGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	7000	V
Maximum RMS Voltage	V_{RMS}	4900	V
Maximum Continuous Reverse Voltage	V_R	7000	V
Maximum Average Forward Current 0.375" (9.5mm) Lead Length $T_a = 60\text{ }^\circ\text{C}$	$I_{F(AV)}$	6.0	A
Non - Repetitive Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	65	A
Forward Voltage at $I_F = 6\text{ A}$	$V_{F(min)}$	20	V
	$V_{F(max)}$	35	
Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$ at rated DC Blocking Voltage $T_a = 100\text{ }^\circ\text{C}$	I_R	10.0	μA
	$I_{R(H)}$	100	μA
Typical Thermal Resistance Junction to Ambient (Note1)	$R_{\theta JA}$	20	$^\circ\text{C/W}$
Junction Temperature Range	T_J	- 50 to + 175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 50 to + 175	$^\circ\text{C}$

Notes :

- (1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length,
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC

RATING AND CHARACTERISTIC CURVES (HVR670HVF)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

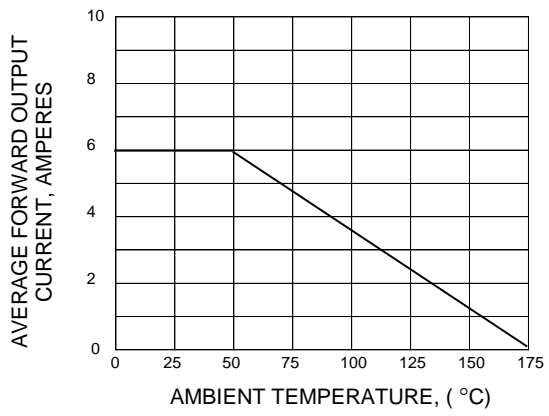


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

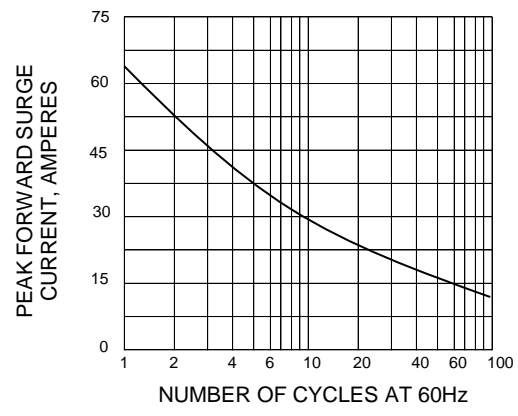


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

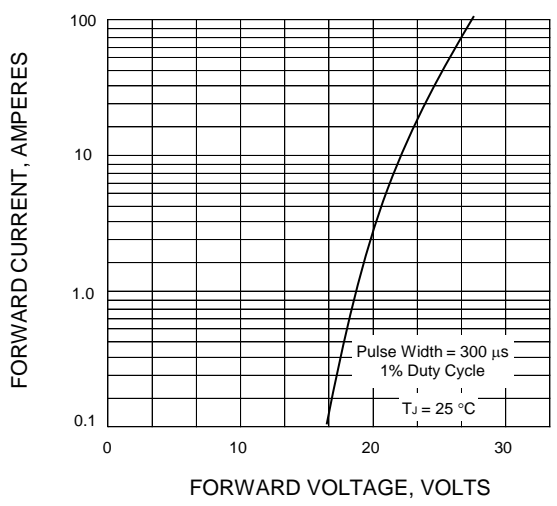


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

