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# HVR4509

## HIGH VOLTAGE RECTIFIER DIODE

PRV : 9000 Volts

Io : 450 mA

### FEATURES :

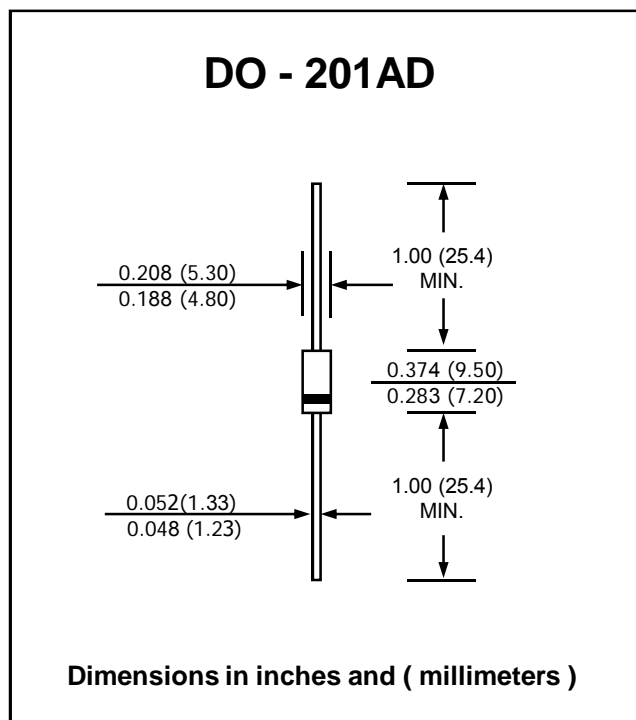
- \* Glass passivated junction chip
- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Pb / RoHS Free

### APPLICATION :

- \* Micro-wave Oven

### 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 : 1.16 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	9000	V
Maximum RMS Voltage	$V_{RMS}$	6300	V
Maximum DC Blocking Voltage	$V_{DC}$	9000	V
Maximum Average Forward Current	$I_{F(AV)}$	450	mA
Maximum Non-repetitive Peak Reverse Current	$I_{RSM}$	100	mA
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load	$I_{FSM}$	30	A
Maximum Peak Forward Voltage at $I_F = 450$ mA	$V_F$	8.0	V
Avalanche Breakdown Voltage at $I_R = 100$ $\mu$ A	$V_{(BR)}$	9.5	kV
Maximum DC Reverse Current at $V_{RM}=V_{RRM}$	$I_R$	5.0	$\mu$ A