

HVA08

HIGH VOLTAGE AVALANCHE DIODE

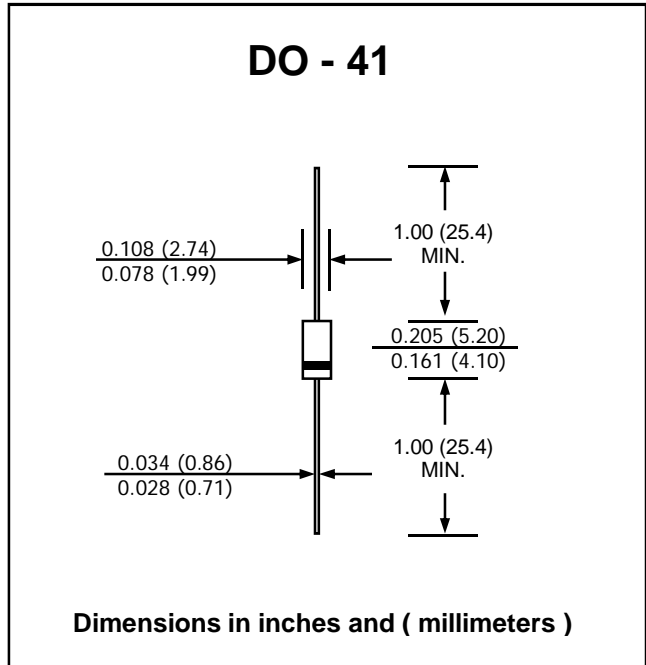
PRV : 8,000 V
Io : 100 mA

FEATURES :

- * High maximum operating temperature
- * Excellent stability
- * High reliability
- * Low reverse current
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-41 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 : 0.34 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 50 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

RATING	SYMBOL	HVA08	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	8,000	V
Maximum Working Reverse Voltage	V_{RWM}	8,000	V
Min. Avalanche Breakdown Voltage at 100 μ A, $T_j = 25\text{ }^\circ\text{C}$	$V_{BR(min.)}$	8,800	V
Maximum Average Forward Current	$I_{F(AV)}$	100	mA
Maximum Repetitive Peak Forward Current	I_{FRM}	500	mA
Maximum Avalanche Energy at $T_a = 140\text{ }^\circ\text{C}$	E_{AR}	10-15	mJ
Forward Voltage at $I_F = 100\text{ mA}$, $T_j = 25\text{ }^\circ\text{C}$	V_F	9.0	V
Maximum Reverse Current $V_R = V_{RWMmax}$: $T_j = 25\text{ }^\circ\text{C}$	I_R	5.0	μ A
Thermal Resistance From Junction to Ambient ($T_a = T_L$; Lead Length = 10 mm)	$R_{th\ j-a}$	90	K/W
Maximum Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 to + 175	$^\circ\text{C}$