

UHVR280

HIGH VOLTAGE ULTRAFAST RECTIFIER DIODE

PRV : 8000 Volts

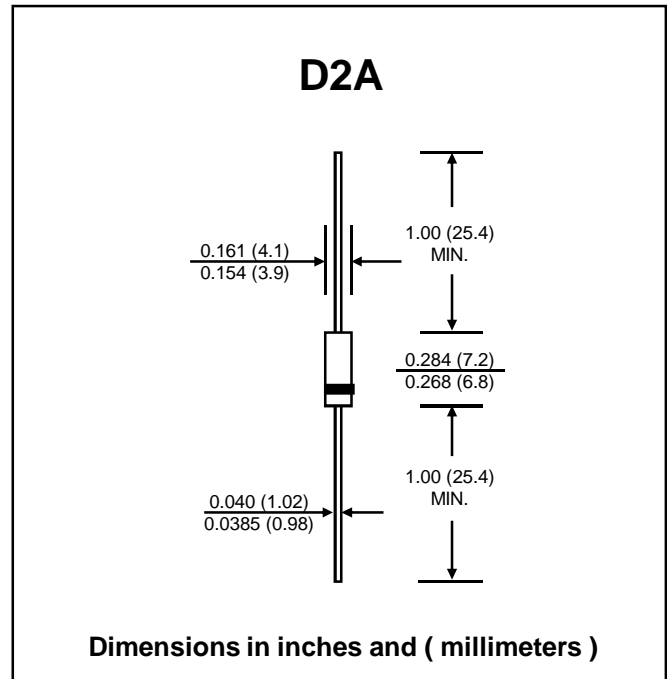
Io : 0.4 Ampere

FEATURES :

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

MECHANICAL DATA :

- * Case : D2A 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 : 0.645 gram



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}	8000	V
Maximum RMS Voltage	V_{RMS}	5600	V
Maximum DC Blocking Voltage	V_{DC}	8000	V
Maximum Average Forward Current $T_a = 55\text{ }^\circ\text{C}$	$I_{F(AV)}$	0.4	A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	40	A
Maximum Peak Forward Voltage at $I_F = 0.4\text{ A}$	V_F	30	V
Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage	I_R	10	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	50	ns
Operating Junction Temperature	T_J	- 50 to + 175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 50 to + 175	$^\circ\text{C}$

Note : (1) Reverse Recovery Test Conditions : $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.25\text{ A}$.