

FHVR1100

MINIATURE HIGH VOLTAGE GLASS PASSIVATED FAST RECTIFIER DIODE

PRV : 10,000 Volts

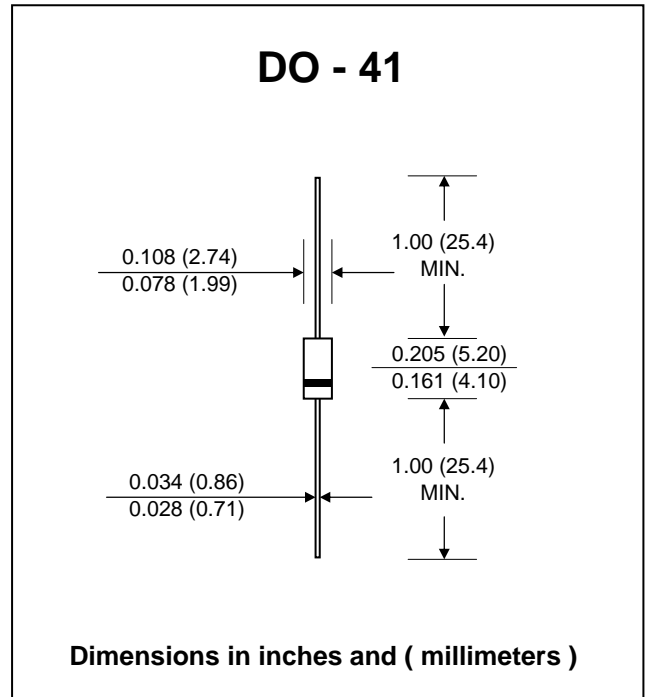
Io : 0.1 Ampere

FEATURES :

- * Glass passivated junction chip
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **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 : 0.335 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}	10000	V
Maximum DC Blocking Voltage	V_{DC}	10000	V
Maximum DC output Current, $T_a = 50^\circ\text{C}$	I_o	100	mA
$T_a = 125^\circ\text{C}$		25	
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	4	A
Maximum Instantaneous Forward Voltage at $I_F = 100\text{ mA}$	V_F	12	V
Maximum DC Reverse Current $T_a = 100^\circ\text{C}$ at Rated DC Blocking Voltage	I_R	20	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	250	ns
Junction Temperature Range	T_J	- 65 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 150	$^\circ\text{C}$

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