

UHVR140

HIGH VOLTAGE ULTRAFAST RECTIFIER DIODE

PRV : 3000 V

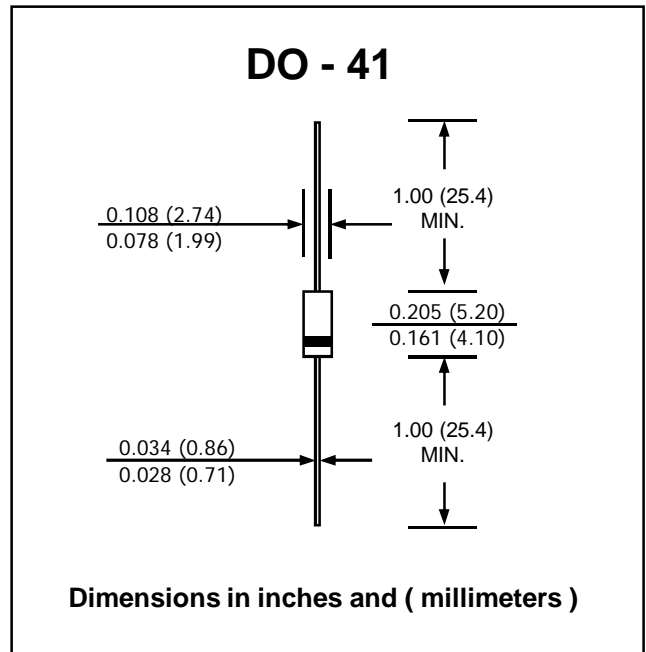
I_o : 3 mA

FEATURES :

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

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 (Ta = 25 °C)

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage (Note 1)	V _{RRM}	3000	V
Maximum Non-Repetitive Peak Reverse Voltage (Note 1)	V _{RSM}	3600	V
Maximum Average Forward Current (15.75kHz C-Load)	I _{F(AV)}	3.0	mA
Peak Forward Surge Current (Non-Repetitive)	I _{FSM}	0.5	A
Maximum Peak Forward Voltage at I _F = 5 mA	V _F	13	V
Maximum Peak Reverse Current at V _R = V _{RRM} (Note 1)	I _R	2.0	μA
Maximum Reverse Recovery Time (Note 2)	T _{rr}	100	ns
Operating Junction Temperature	T _J	- 40 to + 120	°C
Storage Temperature Range	T _{STG}	- 40 to + 120	°C

Notes :

- (1) Diode tested in adequate thermal and dielectric medium.
- (2) Reverse Recovery Test Conditions : I_F = 2mA, I_{RP} = 5 mA, 1mA recovery.

RATING AND CHARACTERISTIC CURVES (UHVR140)

FIG.1 - FORWARD CURRENT DERATING CURVE

