

# SHV- 06EN

## GLASS PASSIVATED SUPER FAST HIGH VOLTAGE RECTIFIER

**PRV : 6000 Volts**

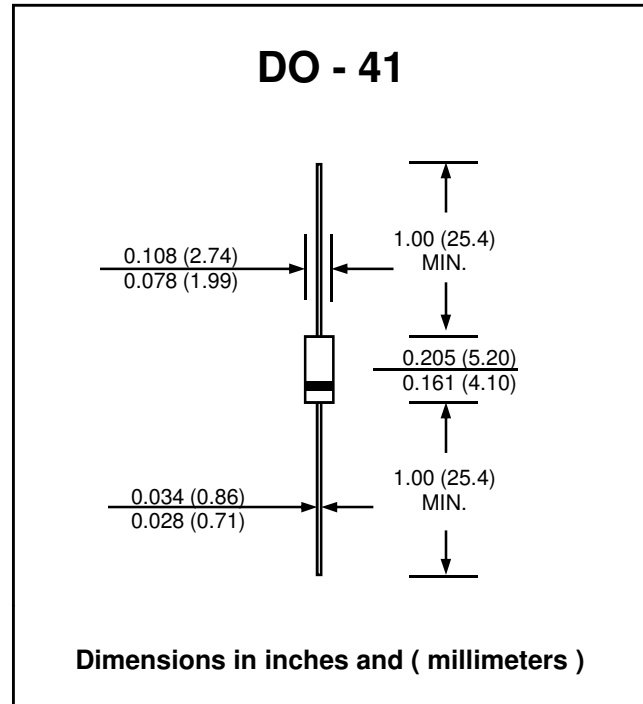
**Io : 2 mA**

### FEATURES :

- \* Glass passivated junction chip
- \* High voltage capability
- \* High surge current capability
- \* 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.

RATING	SYMBOL	VALUE	UNITS
Maximum Peak Reverse Voltage	$V_{RM}$	6000	V
Maximum Average Forward Current	$I_{F(AV)}$	2.0	mA
Peak Forward Surge Current (50 Hz Half-Wave Sinewave Single Shot)	$I_{FSM}$	0.5	A
Maximum Peak Forward Voltage at $I_F = 10$ mA.	$V_F$	24	V
Maximum Reverse Current at $V_R = V_{RM}$ , $T_a = 25$ °C $T_a = 100$ °C	$I_R$	1.0	$\mu A$
	$I_{R(H)}$	3.0	$\mu A$
Maximum Reverse Recovery Time ( Note 1 )	$T_{rr}$	0.15	$\mu s$
Case Temperature	$T_C$	100	°C
Storage Temperature Range	$T_{STG}$	- 40 to + 120	°C

**Note :** (1) Reverse Recovery Test Conditions :  $I_F = 10$  mA,  $I_{RP} = 10$  mA.