

SHV- 05EN

GLASS PASSIVATED SUPER FAST HIGH VOLTAGE RECTIFIER

PRV : 5000 Volts

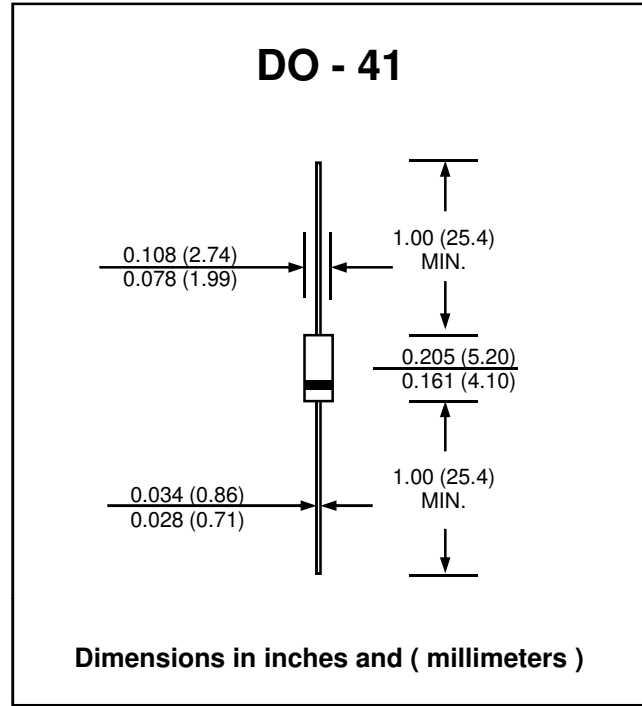
Io : 2 mA

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}	5000	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	20	V
Maximum Reverse Current at $V_R = V_{RM}$, $T_a = 25$ °C $T_a = 100$ °C	I_R	1.0	μ A
	$I_{R(H)}$	3.0	μ A
Maximum Reverse Recovery Time (Note 1)	T_{rr}	0.15	μ 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.