

# QSHV- 06JN

## Glass Passivated Car Ignition Diode

**PRV : 3000 Volts**

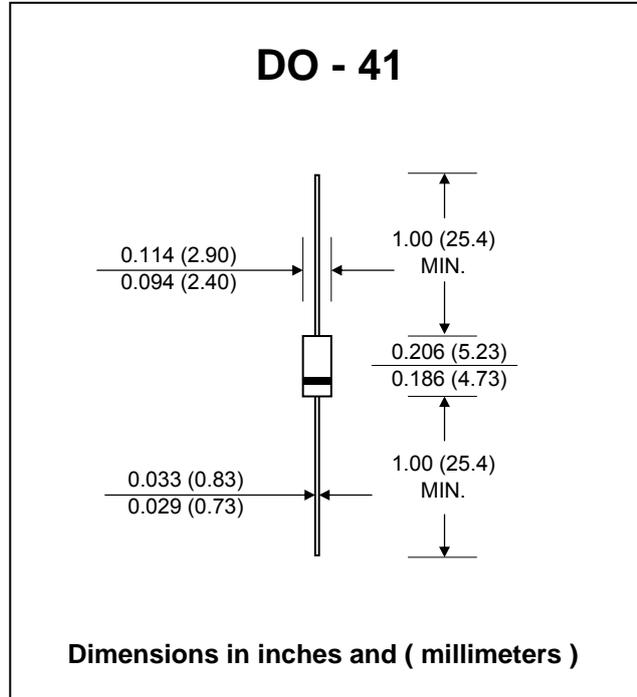
**I<sub>o</sub> : 30 mA**

**FEATURES :**

- \* Glass passivated junction chip
- \* High voltage capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* High voltage diode for Igniter
- \* Moisture Sensitivity Level 1 (Unlimited)
- \* AEC-Q101 qualified
- \* **Pb Free / RoHS Compliance**

**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



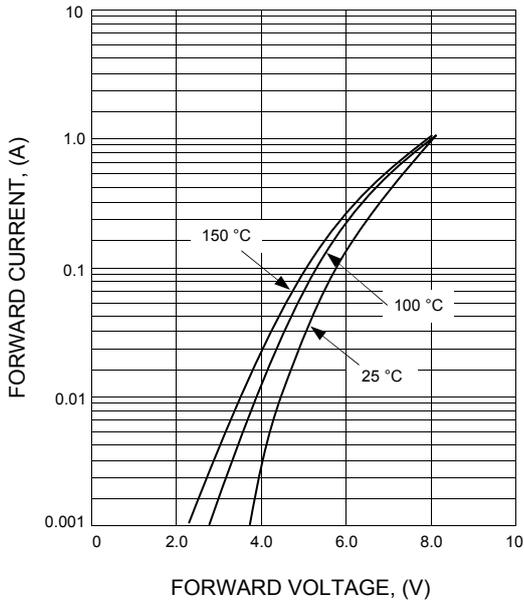
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25 °C ambient temperature unless otherwise specified.

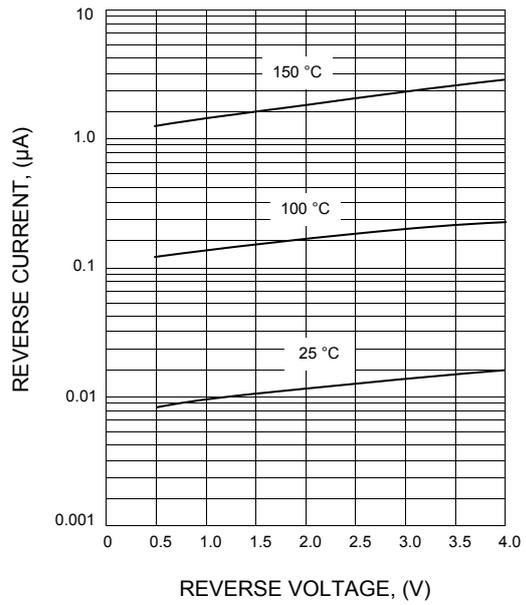
RATING	SYMBOL	VALUE	UNITS
Maximum Peak Reverse Voltage	V <sub>RM</sub>	3000	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	30	mA
Reverse Surge Current Half wave 100 μs of triangle wave, High solitary wave	I <sub>RSM</sub>	30	mA
Surge Forward Current 50 Hz half-wave single	I <sub>FSM</sub>	3	A
Maximum Peak Forward Voltage at I <sub>F</sub> = 10 mA.	V <sub>F</sub>	6.0	V
Maximum Reverse Current at V <sub>R</sub> = V <sub>RM</sub>	I <sub>R</sub>	10	μA
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	V <sub>Z(Min.)</sub>	3.2	kV
	V <sub>Z(Max.)</sub>	6.0	
Operating Junction Temperature Range	T <sub>J</sub>	- 40 to + 150	°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150	°C

**RATING AND CHARACTERISTIC CURVES ( QSHV-06JN )**

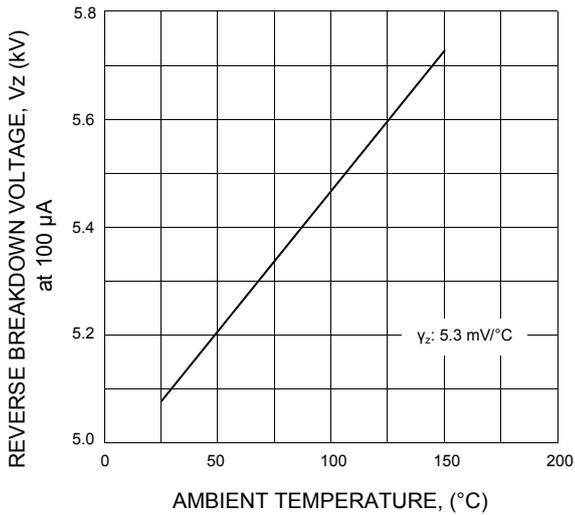
**FIG.1 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.2 - TYPICAL REVERSE CHARACTERISTICS**



**FIG.3 - REVERSE BREAKDOWN VOLTAGE VS. AMBIENT TEMPERATURE CHARACTERISTICS**



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