

QSHV- 06JN

Glass Passivated Car Ignition Diode

PRV : 3000 Volts

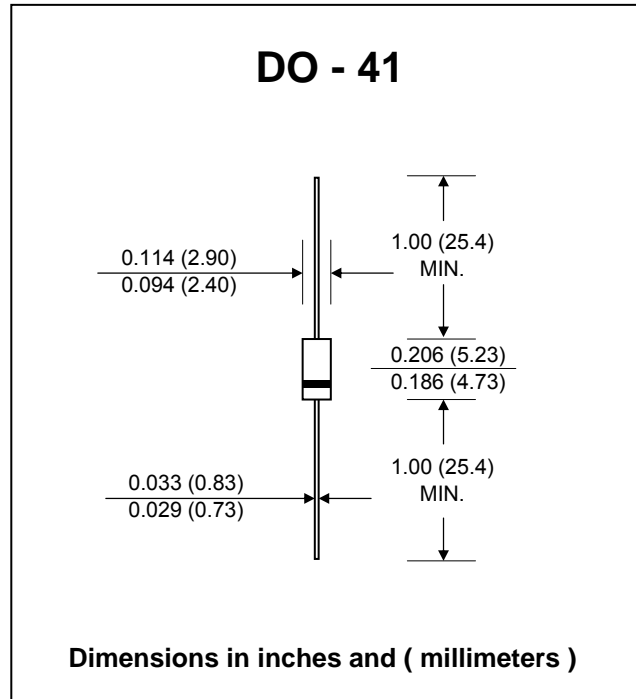
I_o : 30 mA

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 _{RM}	3000	V
Maximum Average Forward Current	I _{F(AV)}	30	mA
Reverse Surge Current Half wave 100 μs of triangle wave, High solitary wave	I _{RSM}	30	mA
Surge Forward Current 50 Hz half-wave single	I _{FSM}	3	A
Maximum Peak Forward Voltage at I _F = 10 mA.	V _F	6.0	V
Maximum Reverse Current at V _R = V _{RM}	I _R	10	μA
Reverse Breakdown Voltage at I _R = 100 μA	V _{Z(Min.)}	3.2	kV
	V _{Z(Max.)}	6.0	
Operating Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

RATING AND CHARACTERISTIC CURVES (QSHV-06JN)

FIG.1 - TYPICAL FORWARD CHARACTERISTICS

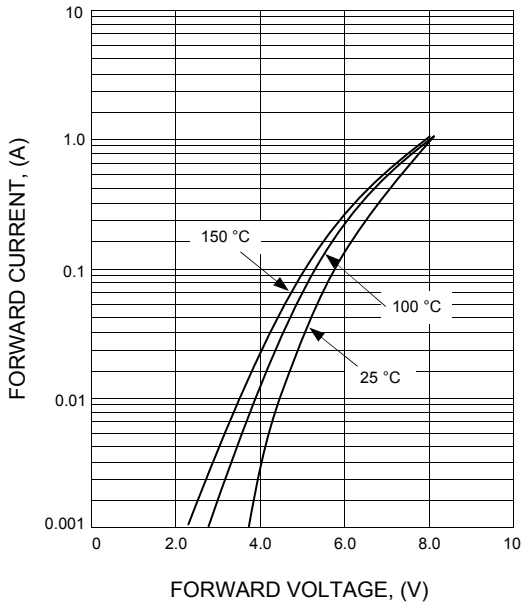


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

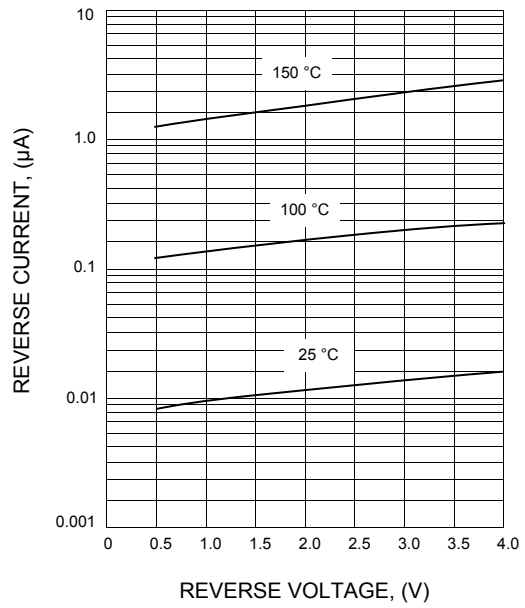


FIG.3 - REVERSE BREAKDOWN VOLTAGE VS. AMBIENT TEMPERATURE CHARACTERISTICS

