

SHV- 06JNS-Q

Glass Passivated Car Ignition Diode

PRV : 3000 Volts

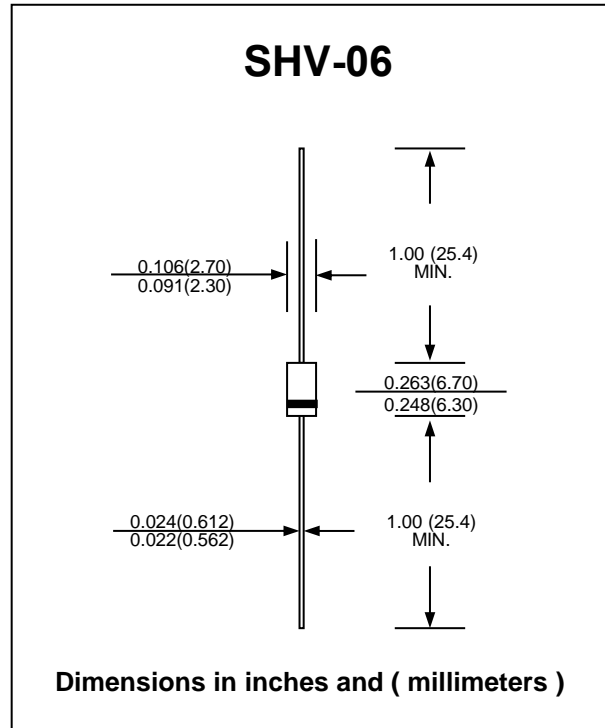
Io : 30 mA

FEATURES :

- * AEC-Q101 Qualified
- * Glass passivated junction chip
- * High voltage capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * High voltage diode for Igniters
- * **Pb Free / RoHS Compliance**

MECHANICAL DATA :

- * Case : SHV-06 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



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 μ s 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	μ A
Reverse Breakdown Voltage at $I_R = 100$ μ A	$V_{Z(Min.)}$	3.2	kV
	$V_{Z(Max.)}$	6.0	
Operating Junction Temperature Range	T_J	- 40 to + 150	$^{\circ}$ C
Storage Temperature Range	T_{STG}	- 40 to + 150	$^{\circ}$ C

RATING AND CHARACTERISTIC CURVES (SHV- 06JNS-Q)

FIG.1 - TYPICAL FORWARD CHARACTERISTICS

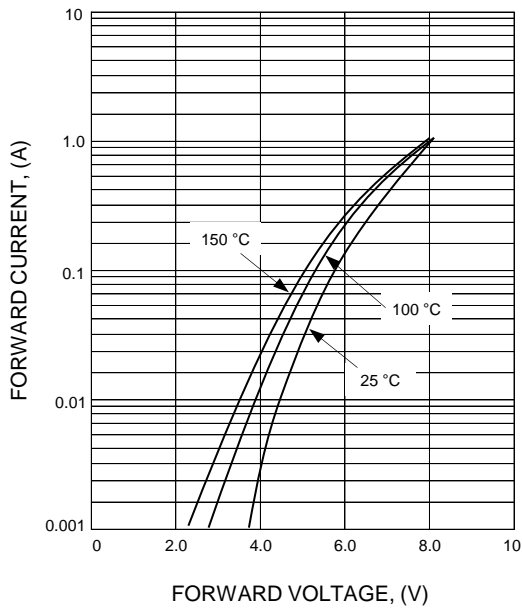


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

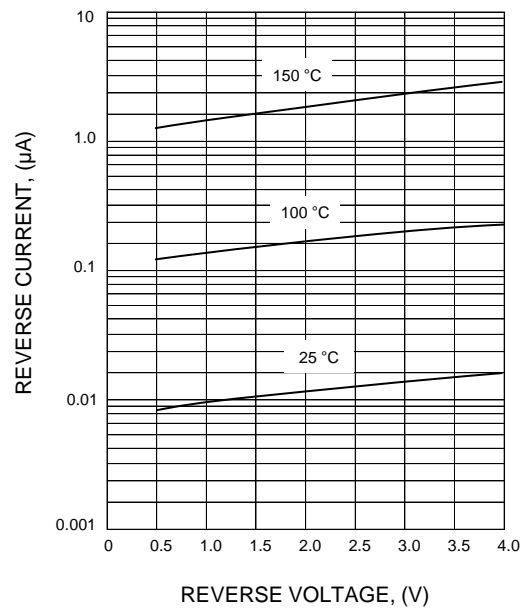
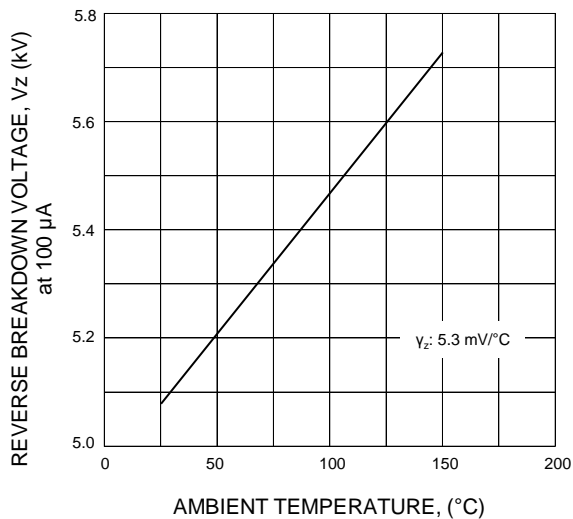


FIG.3 - REVERSE BREAKDOWN VOLTAGE VS. AMBIENT TEMPERATURE CHARACTERISTICS



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