

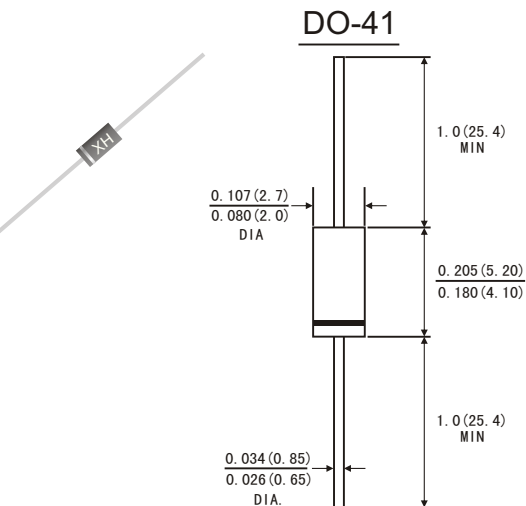


FEATURES

- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- 1.0Ampere operation at $T_a=75^{\circ}\text{C}$ and 55°C with no thermal runaway
- Typical IR less than 0.1uA
- High temperature soldering guaranteed: $260^{\circ}\text{C}/10$ seconds at terminals
- Plastic Package has Under writers Laboratory Flammability Classification 94V-0
- Component in accordance to RoHs 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- *Case:* JEDEC DO-41 molded plastic body
- *Terminals:* Lead solderable per MIL-STD-750,method 2026
- *Polarity:* Color band denotes cathode end
- *Mounting Position:* Any
- *Weight:* 0.012ounce, 0.33 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

		Symbols	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	Unis
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm) lead length at TA=75°C		I(AV)	1.0							Amp
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method) TA=75°C		IFSM	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A		VF	1.0							Volts
Maximum Reverse current at rated DC Blocking Voltage	T _A =25 °C	IR	5.0							μ A
	T _A =125 °C		100.0							
Typical Thermal resistance (Note 2)		RθJA	65.0							°C/W
Typical Junction Capacitance(Note 1)		CJ	10.0							pF
Operating and Storage temperature Range		TJ TSTG	-65 to+175							°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.Mount on Cu-Pad Size 5mm×5mm on P. C. B.



FIG.1-FORWARD CURRENT DERATING CURVE

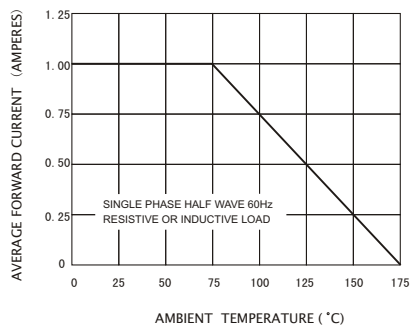


FIG.2-TYPICAL FORWARD CHARACTERISTICS

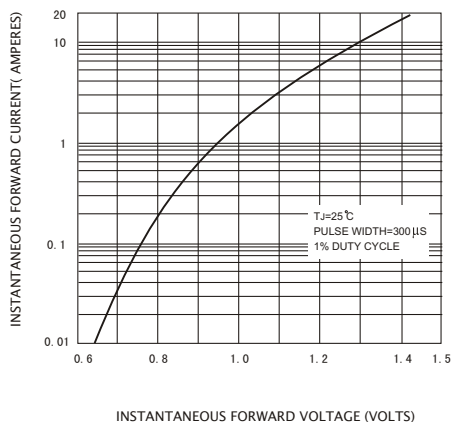


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

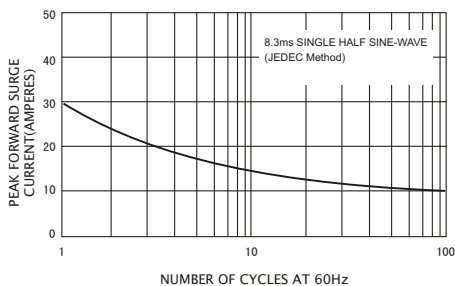


FIG.4-TYPICAL REVERSE CHARACTERISTICS

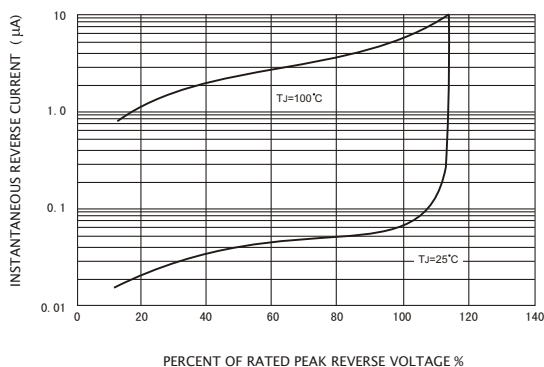


FIG.5-TYPICAL JUNCTION CAPACITANCE

