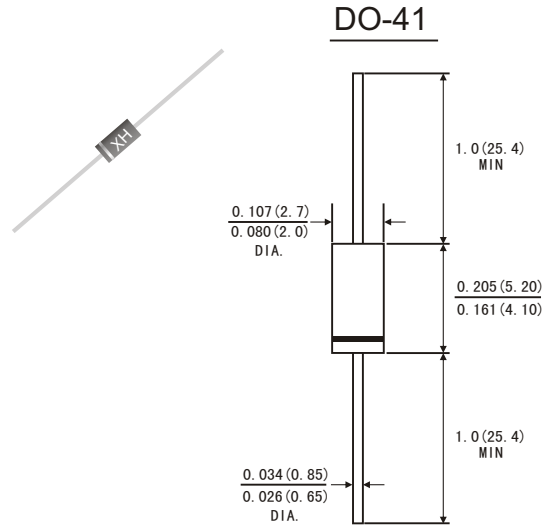


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Diffused junction
- High current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals,
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

		Symbols	BA157	BA158	BA159	Units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	400	600	1000	Volts
Maximum RMS Voltage		V _{RMS}	280	420	700	Volts
Maximum DC Blocking Voltage		V _{DC}	400	600	1000	Volts
Maximum Average Forward Rectified Current load length at T _A =50 °C		I _(AV)	1.0			Amps
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load		I _{FSM}	30			Amps
Maximum Instantaneous Forward Voltage at 1.0 A		V _F	1.3			Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25°C	I _R	5.0			μA
	T _A =100°C		100			
Maximum reverse recovery time(Note 1)		t _{rr}	150	250	500	ns
Max.thermal resistance(Note 2)		R _{θJA}	65			°C/W
Typical junction capacitance(Note 3)		C _J	15			pF
Operating junction and storage temperature range		T _J T _{STG}	-65 to +150			°C

- Note: 1. Test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.
2. Mount on Cu-Pad size 5mmx5mm on P.C.B.
3. Measured at 1MHz and applied reverse voltage of 4.0 Volts D.C.

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

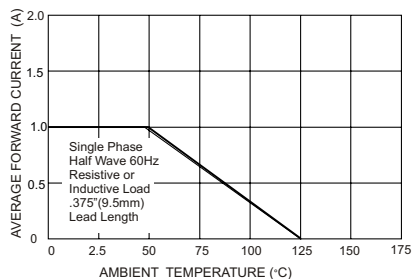


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

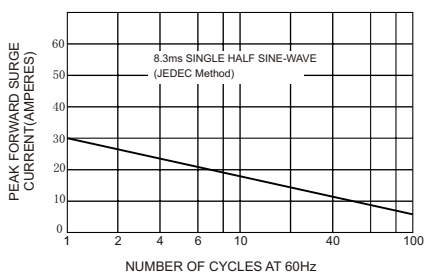


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

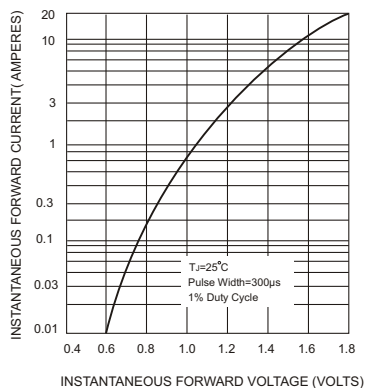


FIG.4-TYPICAL JUNCTION CAPACITANCE

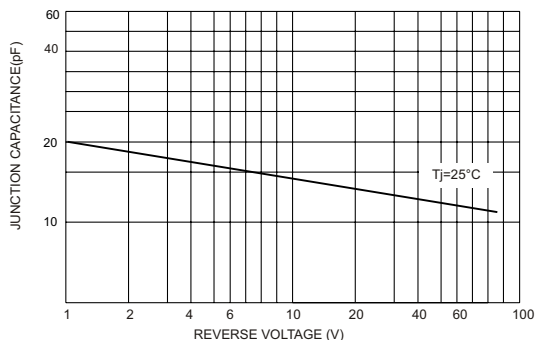
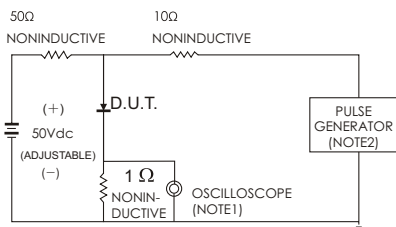


FIG.5- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time=7ns max. input Impedance=1 megohm 22pF
2. Rise Time=10ns max. source Impedance=50 ohms

