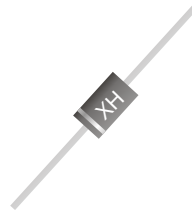


FEATURES

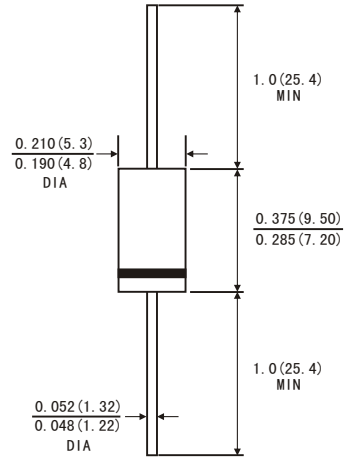
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Diffused junction
- High current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- *Case*: JEDEC DO-201AD molded plastic body
- *Terminals*: Plated axial leads, solderable per MIL-STD-750, method 2026
- *Polarity*: Color band denotes cathode end
- *Mounting Position*: Any
- *Weight*: 0.041 ounce, 1.18 grams



DO-201AD



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	BY396	BY397	BY398	BY399	BY399S	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	70	140	280	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	100	200	400	800	1000	Volts
Maximum Average Forward Rectified Current load at T _A =55°C	I _(AV)	3.0					Amps
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load at T _A =25°C	I _{FSM}	150					Amps
Maximum Instantaneous Forward Voltage at 3.0 A	V _F	1.2					Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25°C	10					μA
	T _A =100°C	150					
Maximum reverse recovery time(Note1)	t _{rr}	250					ns
Max.thermal resistance(Note 3)	R _{θJA}	30					°C/W
Typical junction capacitance(Note2)	C _J	60					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. Measured at 1MHz and applied reverse voltage of 4.0 Volts D.C.

3. Mount on Cu-Pad size 5mmx5mm on P.C.B.

FIG.1 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

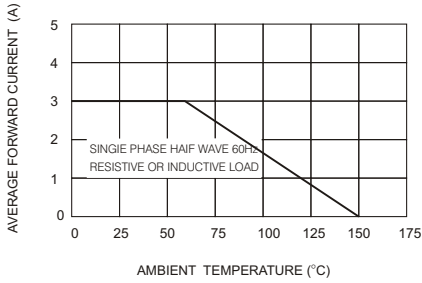


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

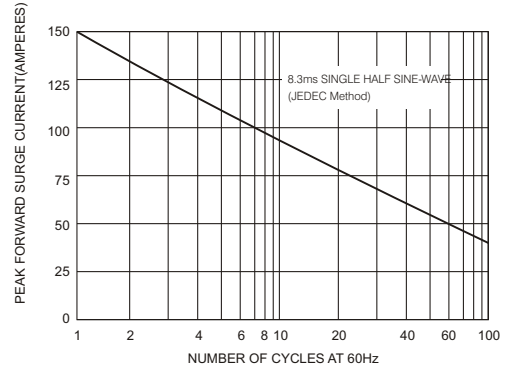


FIG.3-TYPICAL THERMAL IMPEDANCE

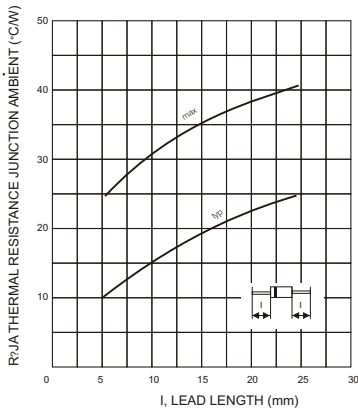


FIG.4-TYPICAL JUNCTION CAPACITANCE

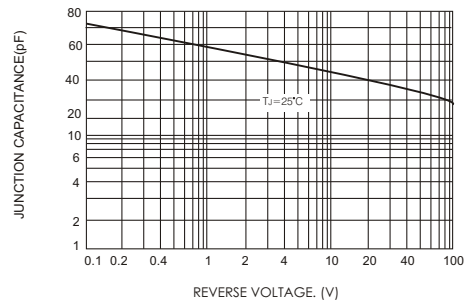


FIG.5-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

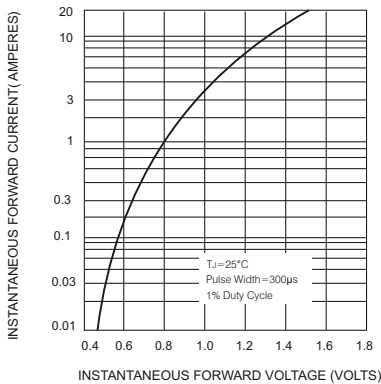


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

