

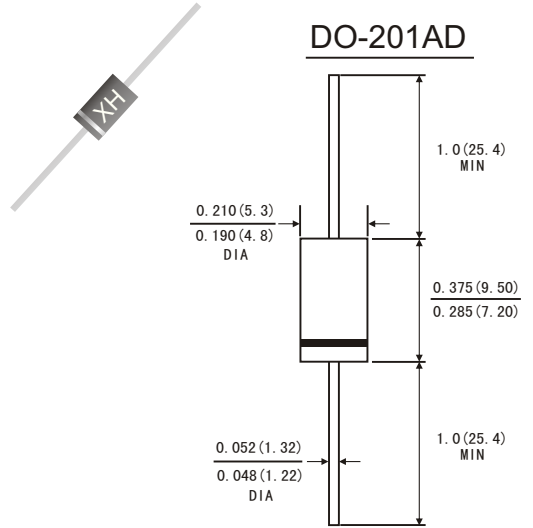


### FEATURES

- Low cost
- Diffused junction
- High current capability
- The plastic material carries U/L recognition 94V-0
- 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 lead solderable per MIL-STD-750,method 2026
- *Polarity:* Color band denotes cathode end
- *Mounting Position:* Any
- *Weight:* 0.042ounce, 1.1 grams



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	BY550 -50	BY550 -100	BY550 -200	BY550 -400	BY550 -600	BY550 -800	BY550 -1000	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm)lead length at $T_a=60^{\circ}C$	$I(AV)$	5.0							Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	300.0							Amps
Maximum Instantaneous Forward Voltage at 5.0 A	$V_F$	0.95							Volts
Maximum Reverse current at rated DC Blocking Voltage	$I_R$	$T_a = 25^{\circ}C$							$\mu A$
		$T_a = 100^{\circ}C$							
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	18.0							$^{\circ}C/W$
Typical Junction Capacitance (Note 1)	$C_J$	50.0							pF
Operating and Storage temperature Range	$T_J$ $T_{STG}$	-65 to+175							$^{\circ}C$

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

2. Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P. C. Board Mounted



FIG.1-FORWARD CURRENT DERATING CURVE

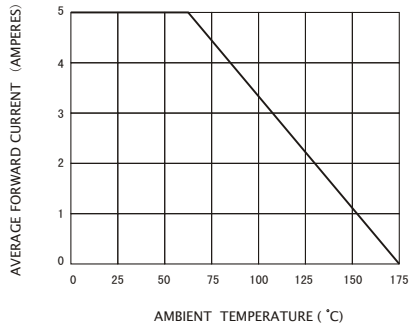


FIG.2-TYPICAL INSTANTANEOUS FORWARD VOLTAGE.(V)

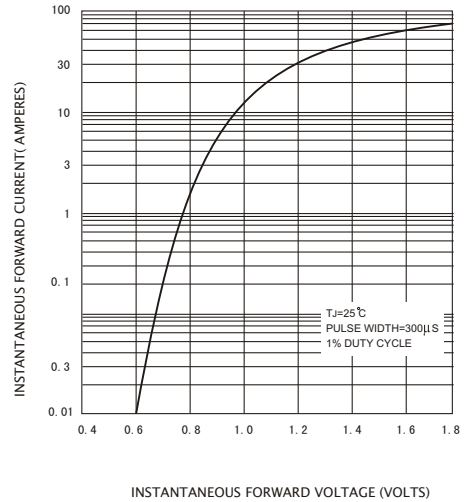


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

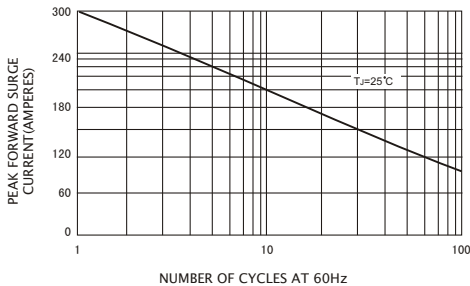


FIG.4-TYPICAL REVERSE CHARACTERISTICS

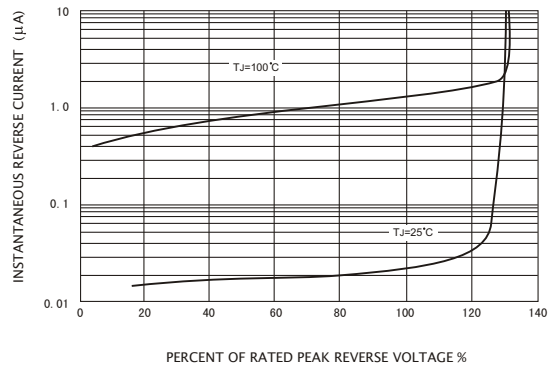


FIG.5-TYPICAL JUNCTION CAPACITANCE

