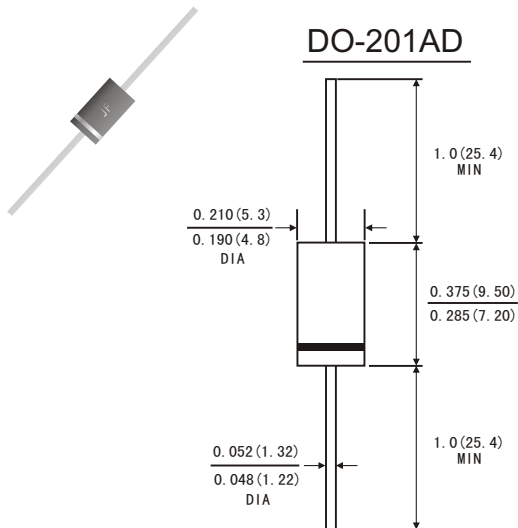


FEATURES

- 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		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=60°C		IAV)	5.0							Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)		IFSM	300.0							Amps
Maximum Instantaneous Forward Voltage at 5.0 A		VF	0.95							Volts
Maximum Reverse current at rated DC Blocking Voltage	Ta =25 °C	IR	20.0							μA
	Ta =100 °C		50.0							
Typical Thermal Resistance (Note 2)		ROJA	18.0							°C/W
Typical Junction Capacitance (Note 1)		CJ	50.0							pF
Operating and Storage temperature Range		TJ TSTG	-65 to+175							°C

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

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

RATINGS AND CHARACTERISTIC CURVES BY550-50 THRU BY550-1000

FIG.1-FORWARD CURRENT DERATING CURVE

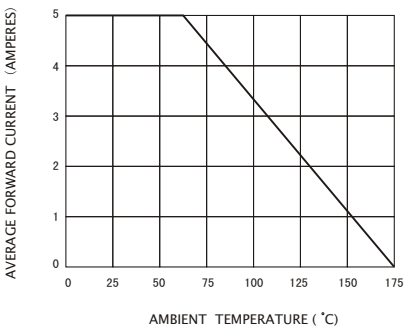


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

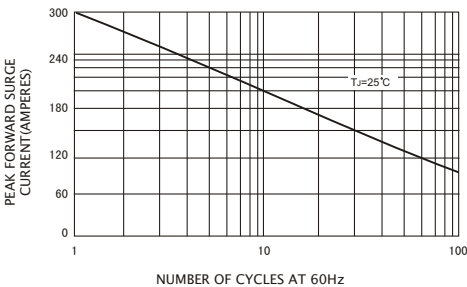


FIG.5-TYPICAL JUNCTION CAPACITANCE

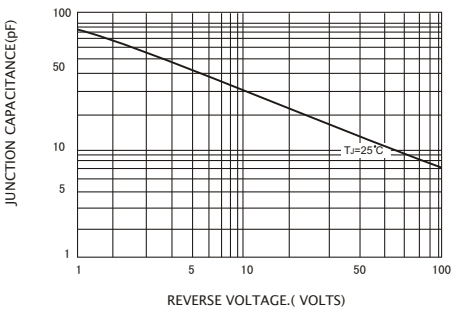


FIG.2-TYPICAL INSTANTANEOUS FORWARD VOLTAGE.(V)

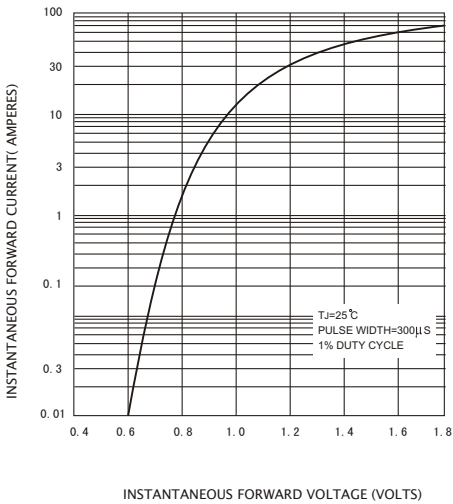


FIG.4-TYPICAL REVERSE CHARACTERISTICS

