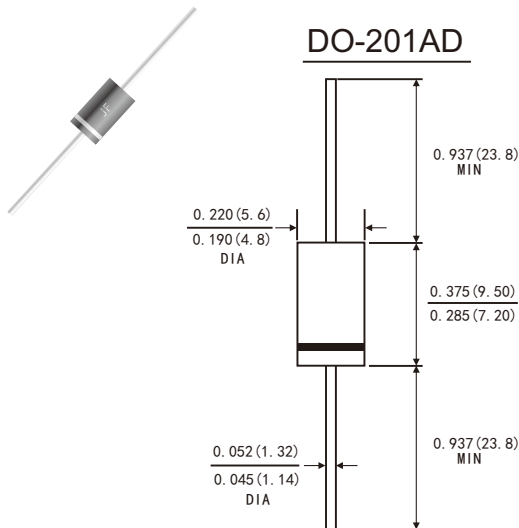


FEATURES

- 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 2011/65/EU

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		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	T _A =25°C	I _R	20.0							μA
	T _A =100°C		50.0							
Typical Thermal Resistance (Note 2)		R _{θJA}	18.0							°C/W
Typical Junction Capacitance (Note 1)		C _J	50.0							pF
Operating and Storage temperature Range		T _J T _{STG}	-55 to+150							°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

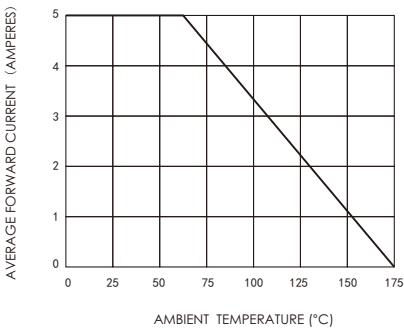


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

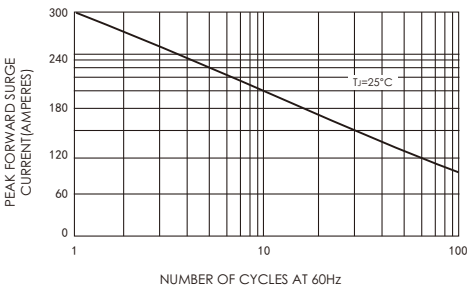


FIG.5-TYPICAL JUNCTION CAPACITANCE

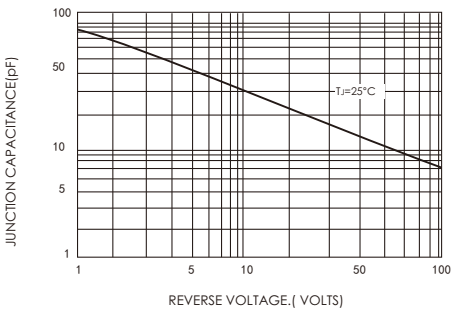


FIG.2-TYPICAL INSTANTANEOUS FORWARD VOLTAGE.(V)

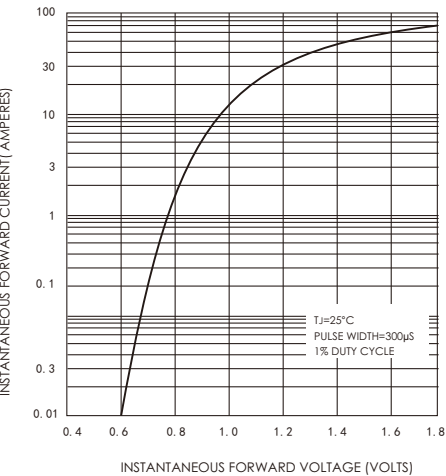


FIG.4-TYPICAL REVERSE CHARACTERISTICS

