

BY550-50 THRU BY550-1000

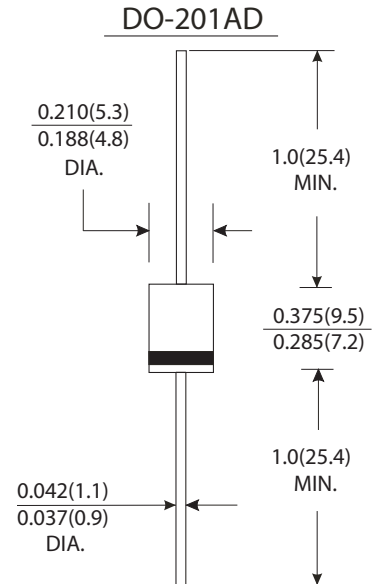
CURRENT 5.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- Low cost
- Diffused junction
- High current capability
- The plastic material carries U/L recognition 94V-0

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 : 0.042 ounce, 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 average forward rectified current at T _A =60 °C	I _(AV)	5.0							Amps
Recurrent peak Forward Current	I _{FRM}	60.0							Amps
Peak forward surge current 8.3ms half sine wave superimposed on rated load	I _{FSM}	300.0							Amps
Maximum instantaneous forward voltage at 5.0A	V _F	1.1							Volts
Maximum reverse current at rated DC blocking voltage	I _R	20.0							μA
Typical thermal resistance	R _{θJA}	30.0							°C/W
Operating and storage temperature range	T _J T _{STG}	-65 to +150							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES BY550-50 THRU BY550-1000

FIG.1-FORWARD CURRENT DERATING CURVE

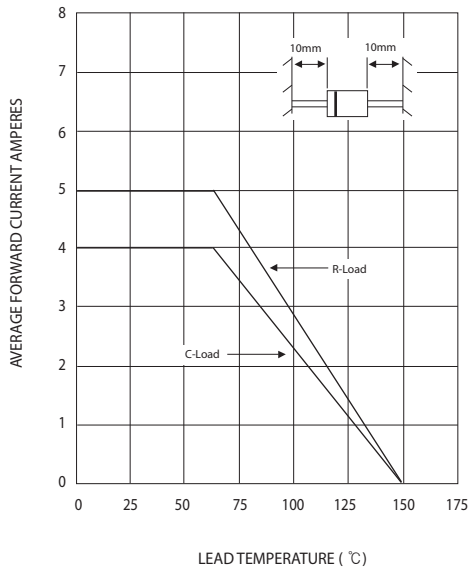


FIG.2-TYPICAL FORWARD CHARACTERISTICS

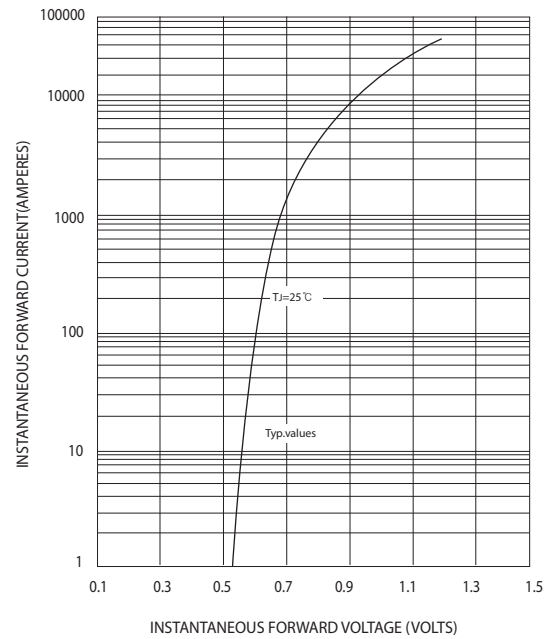


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

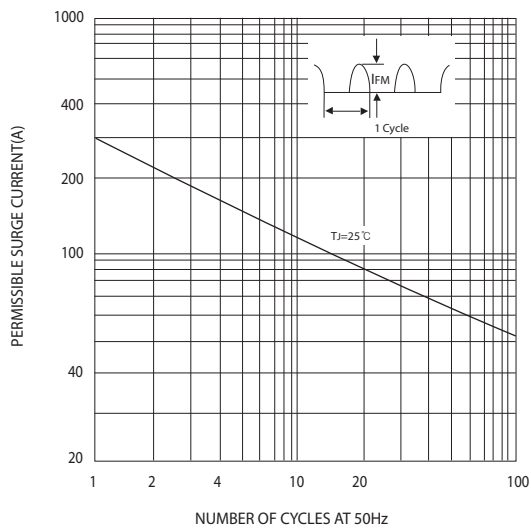


FIG.4-TYPICAL THERMAL RESISTANCE

