

Features

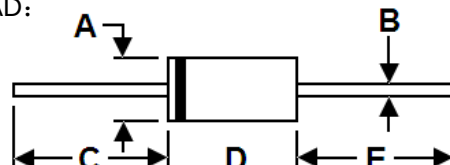
- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability



RoHS
COMPLIANT

Package Outline Dimensions

DO-201AD:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	4.8	5.3	0.189	0.209
B	1.2	1.3	0.047	0.051
C	25.4	-	1.0	-
D	7.2	9.6	0.283	0.378
E	25.4	-	1.0	-

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	BY550-50	BY550-100	BY550-200	BY550-400	BY550-600	BY550-800	BY550-1000	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	50	100	200	400	600	800	1000	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm)Lead Length @ $T_A=60^{\circ}C$	$I_{F(AV)}$	5.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	300							A
Maximum Instantaneous Forward Voltage at 5.0A	V_F	0.95							V
Maximum D.C Reverse Current @ $T_A=25^{\circ}C$ at Rated D.C Blocking Voltage @ $T_A=100^{\circ}C$	I_R	20 50							μA
Typical junction capacitance(Note1)	C_J	50							pF
Typical Thermal Resistance(Note2)	$R_{\theta JA}$	18							$^{\circ}C/W$
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +125 / -55 to +150							$^{\circ}C$

Note: 1、Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C. 2、Thermal Resistance From Junction to Ambient 0.375"(9.5mm) Lead Length.

Ratings and Characteristic Curves

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

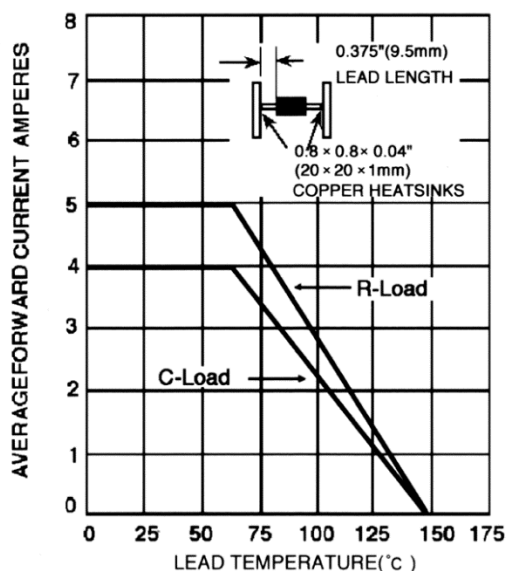


FIG. 2 – TYPICAL FORWARD CHARACTERISTICS

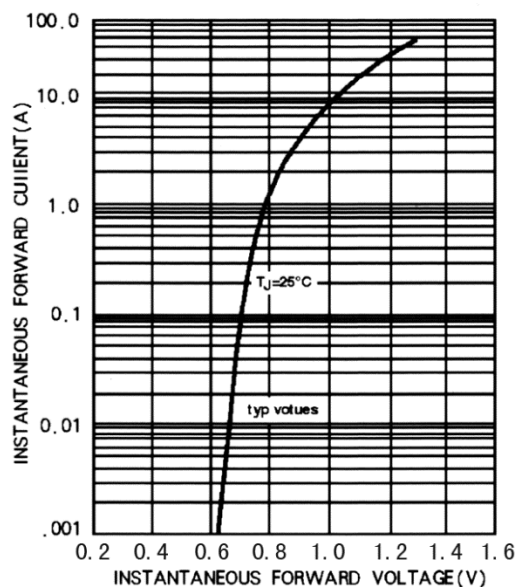


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

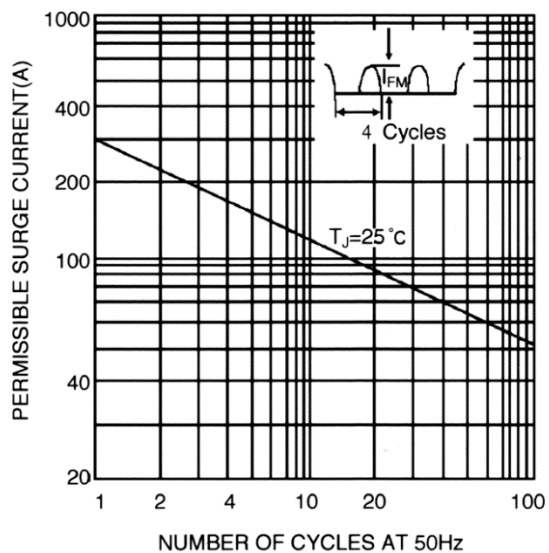
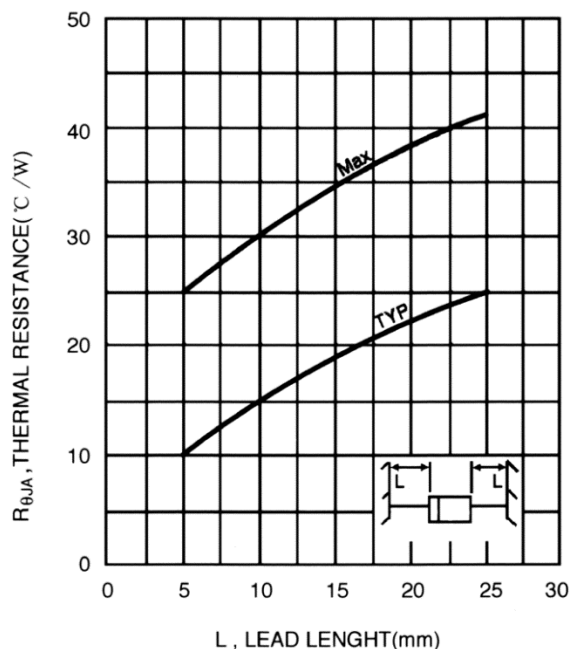


FIG. 4 – TYPICAL THERMAL RESISTANCE





BY550-50 THRU BY550-1000

5.0 Amps. Silicon Rectifiers

Ordering Information

Part No.	Package	Packing
BY550-50~BY550-1000	DO-201AD	0.8K/AMMO box
BY550-50~BY550-1000	DO-201AD	1.0K/AMMO box
BY550-50~BY550-1000	DO-201AD	1.2K/AMMO box
BY550-50~BY550-1000	DO-201AD	1.2K/13" Paper reel
BY550-50~BY550-1000	DO-201AD	0.5K/Bulk packing