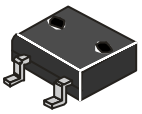
# DB201GS THRU DB207GS

SINGLE PHASE 2.0 AMP SURFACE MOUNT BRIDGE RECTIFIERS



## VOLTAGE RANGE

50 to 1000 Volts

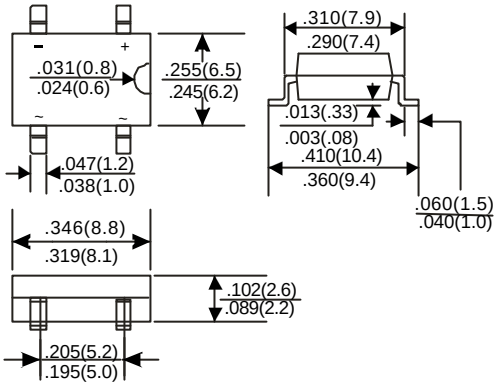
## CURRENT

2.0 Ampere

## FEATURES

* Ideal for printed circuit board
* Reliable low cost construction utilizing molded plastic technique
* High surge current capability
* Polarity: marked on body
* Mounting position: Any
* Weight: 0.3695 grams
* Lead Free Finish/RoHS Compliant

**DB-1S**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| TYPE NUMBER | DB201GS | DB202GS | DB203GS | DB204GS | DB205GS | DB206GS | DB207GS | UNITS |
|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=40˚C | 2.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 50 | | | | | | | A |
| Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C. | 1.1 | | | | | | | V |
| Maximum DC Reverse Current Ta=25˚C | 10 | | | | | | | uA |
| at Rated DC Blocking Voltage Ta=125˚C | 500 | | | | | | | uA |
| Operating Temperature Range, Tj | -65 — +150 | | | | | | | ˚C |
| Storage Temperature Range, TSTG | -65 — +150 | | | | | | | ˚C |



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## RATING AND CHARACTERISTIC CURVES (DB201GS THRU DB207GS)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

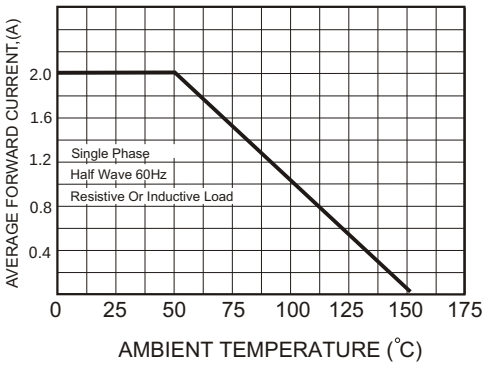



FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

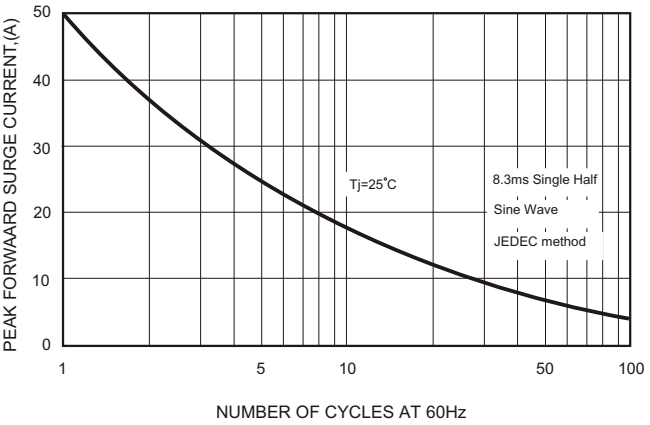



FIG.3-TYPICAL FORWARD CHARACTERISTICS

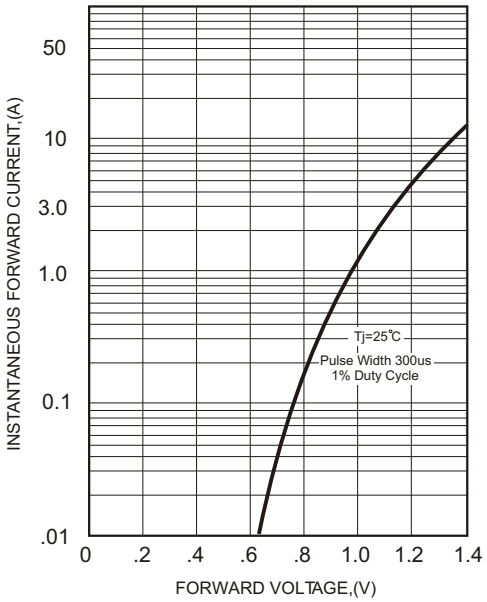
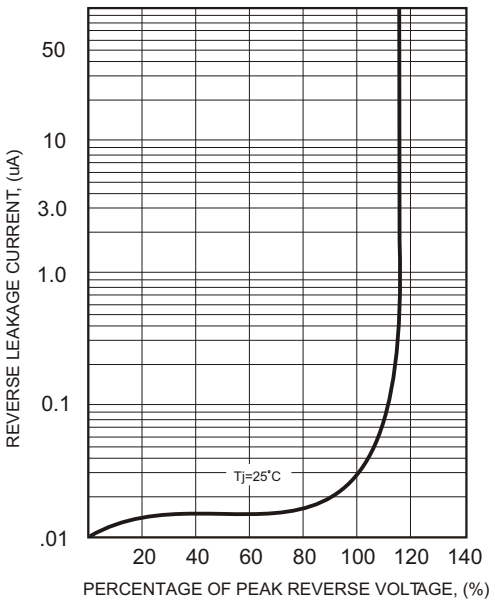



FIG.4-TYPICAL REVERSE CHARACTERISTICS



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