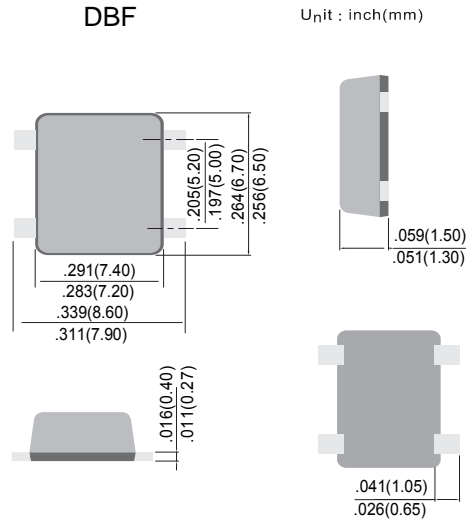


DB201F~DB207F

BRIDGE RECTIFIER

VOLTAGE 50~1000 Volts CURRENT 2.0 Amperes



FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating-- 50 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols molded or marking on body
- Mounting Position: Any

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 current by 20%

| PARAMETER | SYMBOL | DB201F | DB202F | DB203F | DB204F | DB205F | DB206F | DB207F | UNITS |
|--|--------------------------------------|--------------|--------|--------|--------|--------|--------|--------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Current T _A =25°C | I _{F(AV)} | 2.0 | | | | | | | A |
| Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 90 | | | | | | | A |
| I ² t Rating for fusing (t<8.35ms) | I ² t | 10.0 | | | | | | | A ² S |
| Maximum Forward Voltage Drop per Bridge Element at 2.0A | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current T _J =25 °C at Rated DC Blocking Voltage T _J =125 °C | I _R | 10.0 500 | | | | | | | μA |
| Typical Junction capacitance (Note 1) | C _J | 25 | | | | | | | pF |
| Typical thermal resistance per leg ((Note 2) | R _{θJA} R _{θJL} | 40 15 | | | | | | | °C / W |
| Operating Junction and Storage Temperature Range | T _J , T _{STG} | -55 to + 150 | | | | | | | °C |

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X 0.5"(13 X 13mm) copper pads

DB201F~DB207F

RATING AND CHARACTERISTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

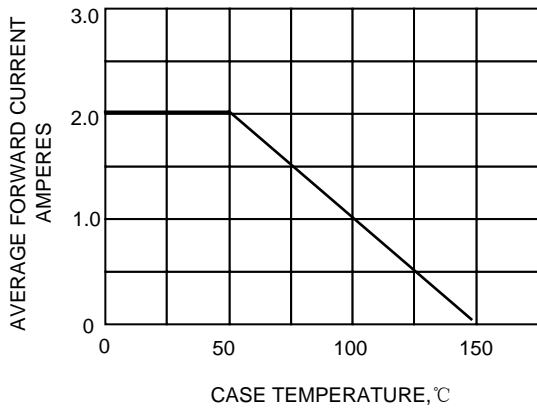


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

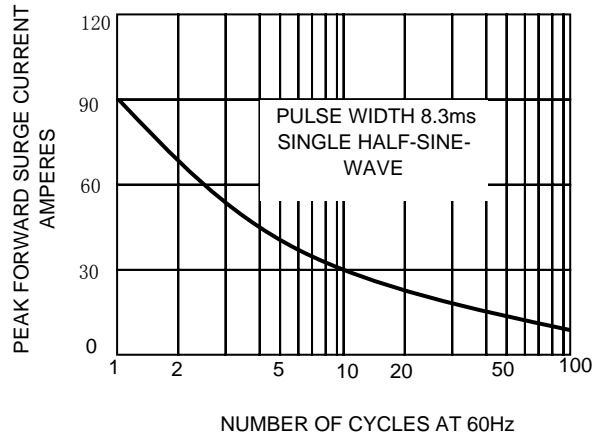


FIG.3-TYPICAL FORWARD CHARACTERISTICS

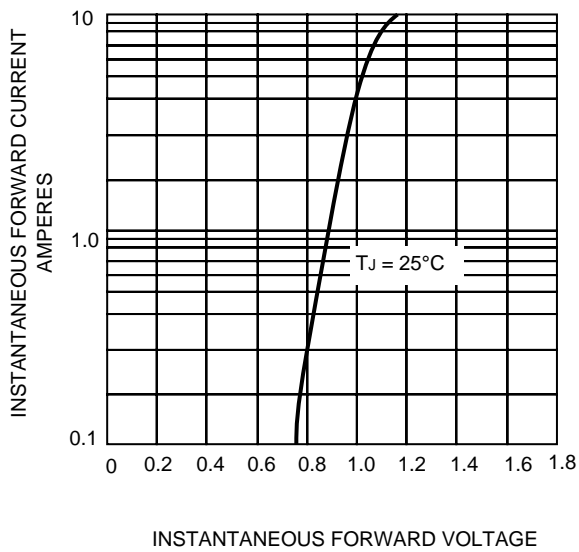


FIG.4 – TYPICAL JUNCTION CAPACITANCE

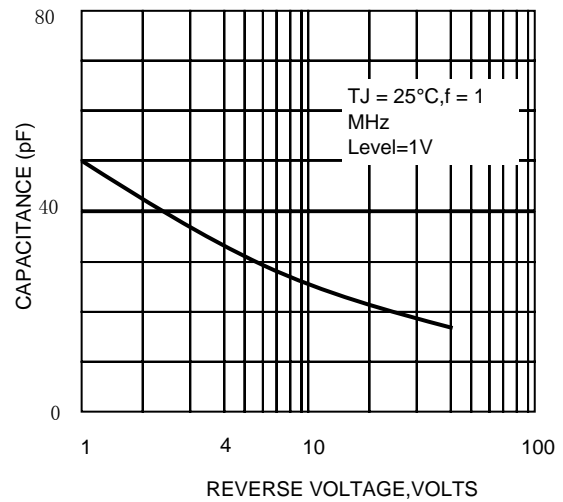


FIG.5- TYPICAL REVERSE CHARACTERISTICS

