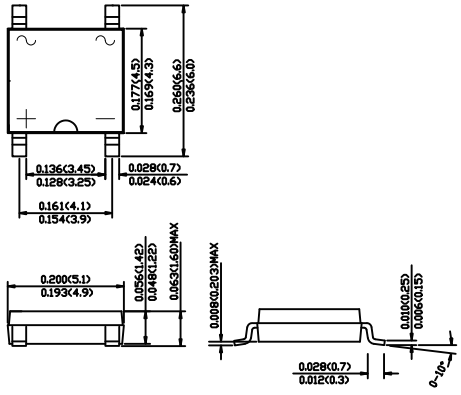
# ABS22 THRU ABS210

**SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS**

Voltage Range - 200 to 1000 Volts  Current - 2.0 Ampere

## ABS




Dimensions in inches and (millimeters)

## FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260℃/10 seconds at 5 lbs., (2.3kg) tension
- Small size, simple installation
- High surge current capability
- Glass passivated chip junction

## MECHANICAL DATA

**Case**: Molded plastic body
**Terminals**: Plated leads solderable per MIL-STD-750, Method 2026
**Polarity**: Polarity symbols marked on case
**Mounting Position**: Any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load, for capacitive load derate current by 20%.

| MDD Catalog Number | SYMBOLS | ABS22 | ABS24 | ABS26 | ABS28 | ABS210 | UNITS |
|---|---|---|---|---|---|---|---|
| Maximum repetitive peak reverse voltage | $V_{RRM}$ | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | $V_{RMS}$ | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | $V_{DC}$ | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current<br>On glass-epoxy P.C.B.(Note1)<br>On aluminum substrate(Note2) | $I_{F(AV)}$ | 2.0 | | | | | Amps |
| Peak forward surge current,<br>8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$ | 60 | | | | | Amps |
| Maximum instantaneous forward voltage drop per leg at 0.4A | $V_F$ | 1.1 | | | | | Volts |
| Maximum DC reverse current $T_A$=25℃<br>at rated DC blocking voltage $T_A$=100℃ | $I_R$ | 5.0<br>500 | | | | | uA<br>uA |
| Typical thermal resistance(NOTE 3) | $R\theta_{JL}$<br>$R\theta_{JA}$ | 25<br>40 | | | | | ℃/W |
| Operating temperature range | $T_J$ | -55 to +150 | | | | | ℃ |
| storage temperature range | $T_{STG}$ | -55 to +150 | | | | | ℃ |

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads
2.On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad
3.Thermal resistance form junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.

# RATINGS AND CHARACTERISTIC CURVES ABS22 THRU ABS210

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

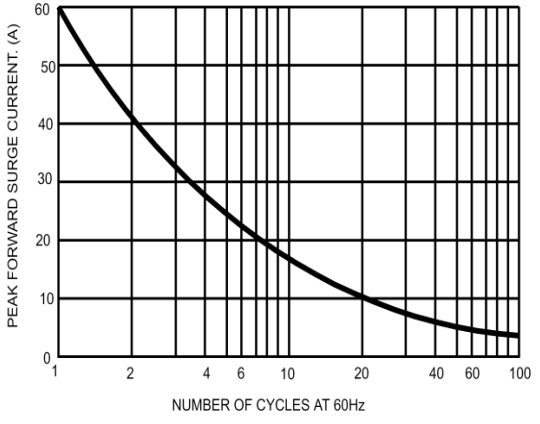



FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

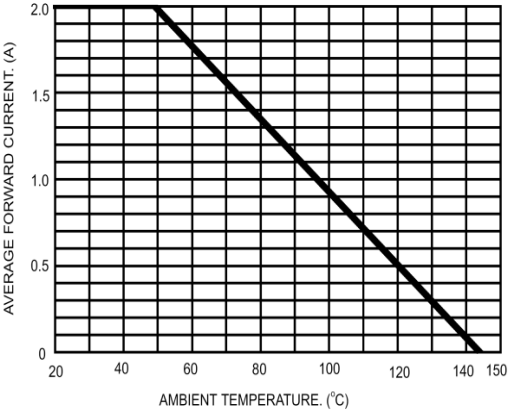



FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

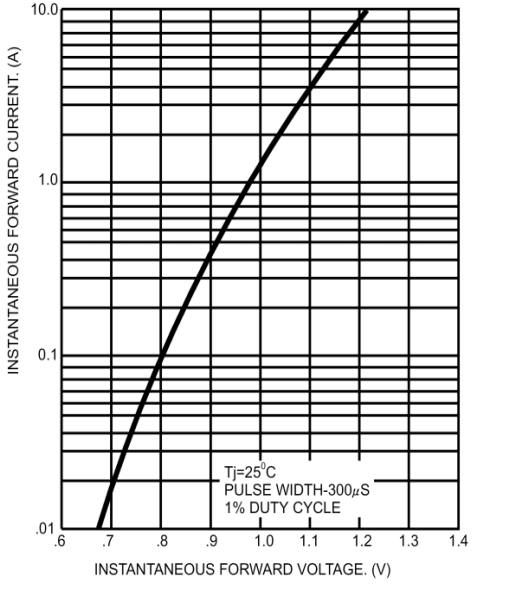
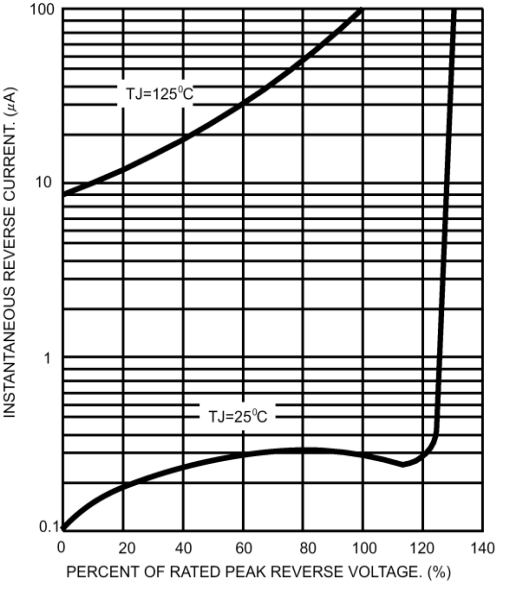



FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT




The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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