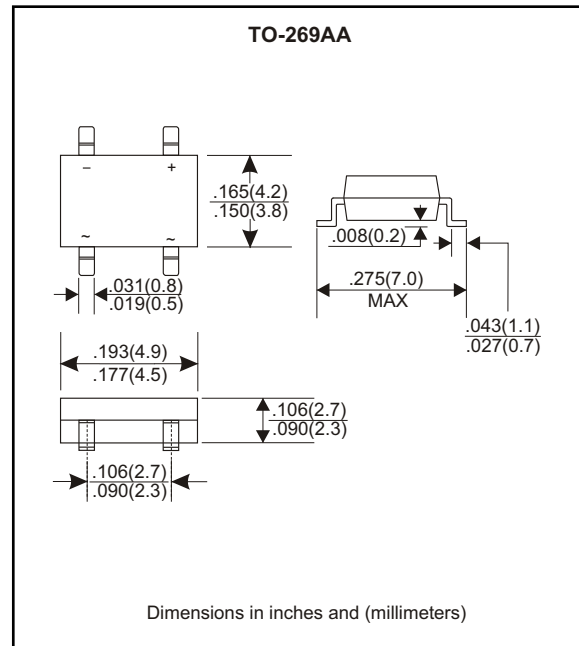


B05S THRU B10S

Glass passivated type

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of ML-S-19500 / 228
- Glass passivated junction



Mechanical data

Case : Moulded plastic, JEDECTO-269AA
 Terminals : Solder plated, solderable per ML-STD-750, Method 2026
 Polarity : marked on body
 Mounting Position : Any
 Weight : 0.22 gram

MAXIMUM RATINGS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

| PARAMETER | CONDITIONS | Symbol | MIN. | TYP. | MAX. | UNIT |
|----------------------------|---|-----------|------|------|------|-------------------------------|
| Forward rectified current | See Fig.1 | I_O | | | 0.5 | A |
| Forward surge current | 8.3ms single half sine-wave superimposed on rate load (JEDEC methode) | I_{FSM} | | | 30 | A |
| Reverse current | $V_R = V_{RRM} T_A = 25^{\circ}\text{C}$ | I_R | | | 5.0 | μA |
| | $V_R = V_{RRM} T_A = 125^{\circ}\text{C}$ | | | | 500 | μA |
| Thermal resistance | Junction to ambient | R_{QJA} | | 85 | | $^{\circ}\text{C} / \text{w}$ |
| Diode junction capacitance | f=1MHz and applied 4vDC reverse voltage | C_J | | 25 | | pF |
| Storage temperature | | T_{STG} | -55 | | +150 | $^{\circ}\text{C}$ |

| SYMBOLS | MARKING CODE | V_{RRM}^{*1} (V) | V_{RMS}^{*2} (V) | V_R^{*3} (V) | V_F^{*4} (V) | Operating temperature ($^{\circ}\text{C}$) |
|---------|--------------|-----------------------|-----------------------|-------------------|-------------------|---|
| B05S | B05S | 50 | 35 | 50 | 1.0 | -55 to +150 |
| B1S | B1S | 100 | 70 | 100 | | |
| B2S | B2S | 200 | 140 | 200 | | |
| B4S | B4S | 400 | 280 | 400 | | |
| B6S | B6S | 600 | 420 | 600 | | |
| B8S | B8S | 800 | 560 | 800 | | |
| B10S | B10S | 1000 | 700 | 1000 | | |

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage per element at 0.5A peak

RATING AND CHARACTERISTIC CURVES (B05S THRU B10S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

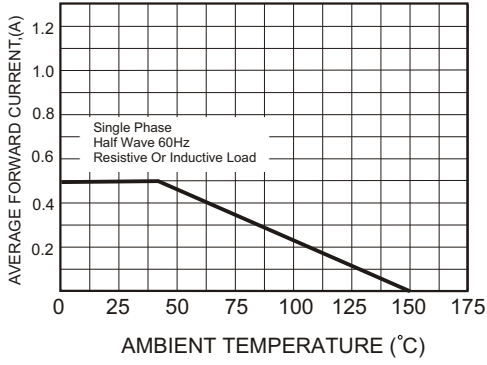


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

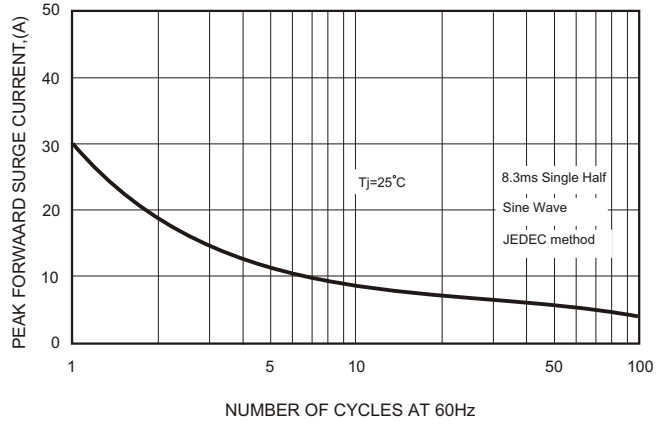


FIG.3-TYPICAL FORWARD CHARACTERISTICS

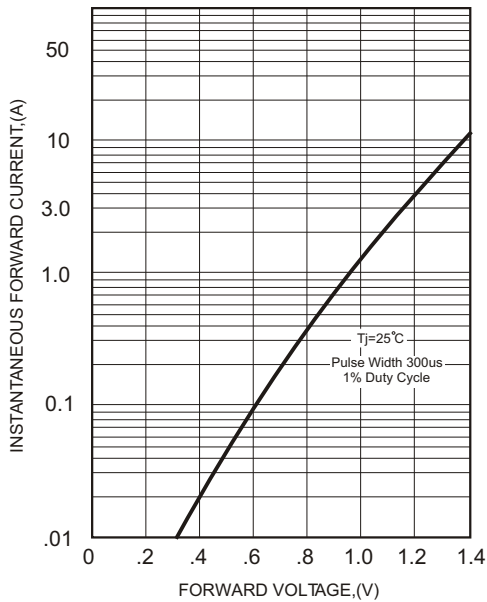


FIG.4-TYPICAL REVERSE CHARACTERISTICS

