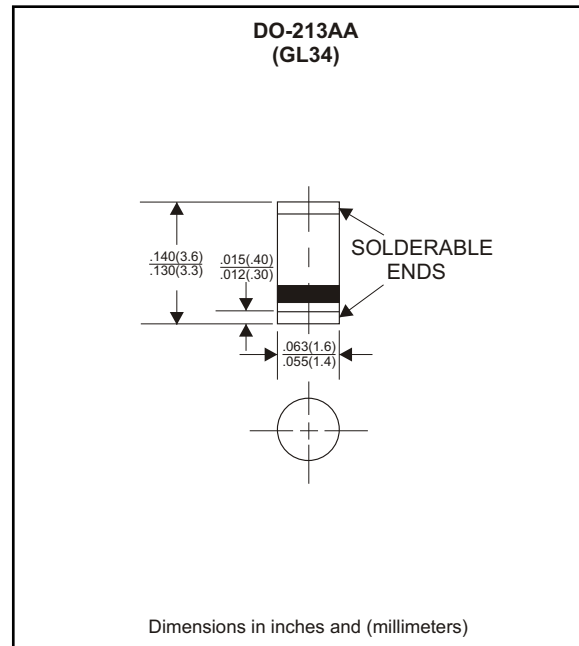


GL34A THRU GL34M

Silicon 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
- Low leakage current



Mechanical data

Case : Moulded plastic, JEDEC DO-213AA
 Terminals : Solder plated, solderable per ML-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.036 gram

MAXIMUM RATINGS (AT $T_A=25^{\circ}C$ 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} | | | 10 | A |
| Reverse current | $V_R = V_{RRM} T_A = 25^{\circ}C$ | I_R | | | 5.0 | μA |
| | $V_R = V_{RRM} T_A = 125^{\circ}C$ | | | | 250 | μA |
| Thermal resistance | Junction to ambient | R_{JA} | | 125 | | $^{\circ}C / w$ |
| Diode junction capacitance | $f=1MHz$ and applied 4vDC reverse voltage | C_J | | 4.0 | | pF |
| Storage temperature | | T_{STG} | -55 | | +125 | $^{\circ}C$ |

| SYMBOLS | MARKING CODE | V_{RRM}^{*1} (V) | V_{RMS}^{*2} (V) | V_R^{*3} (V) | V_F^{*4} (V) | Operating temperature ($^{\circ}C$) |
|---------|--------------|-----------------------|-----------------------|-------------------|-------------------|--|
| GL34A | - | 50 | 35 | 50 | 1.1 | -55 to +125 |
| GL34B | - | 100 | 70 | 100 | | |
| GL34D | - | 200 | 140 | 200 | | |
| GL34G | - | 400 | 280 | 400 | | |
| GL34J | - | 600 | 420 | 600 | | |
| GL34K | - | 800 | 560 | 800 | | |
| GL34M | - | 1000 | 700 | 1000 | | |

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (GL34A THRU GL34M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

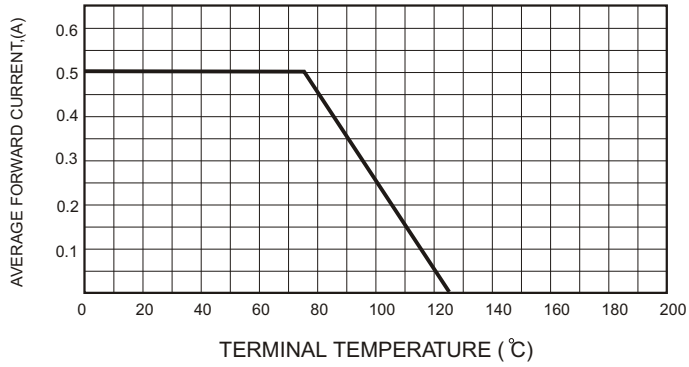


FIG.2-TYPICAL FORWARD CHARACTERISTICS

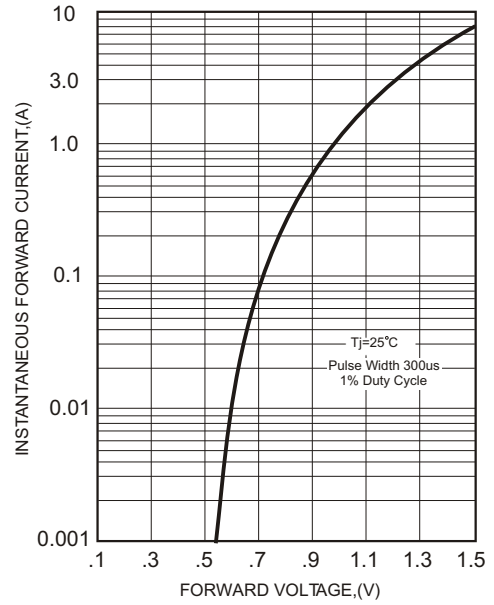


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

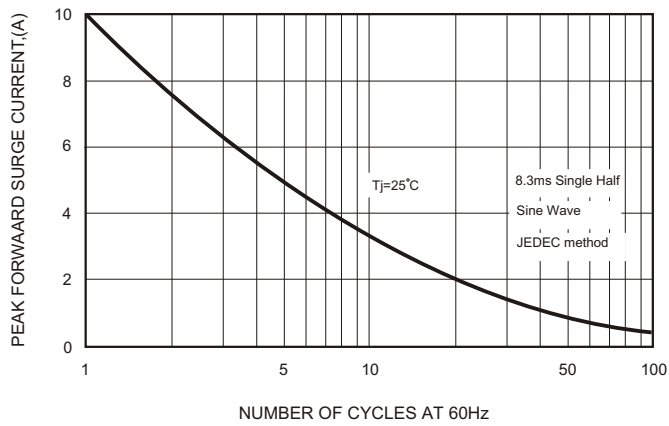


FIG.4-TYPICAL JUNCTION CAPACITANCE

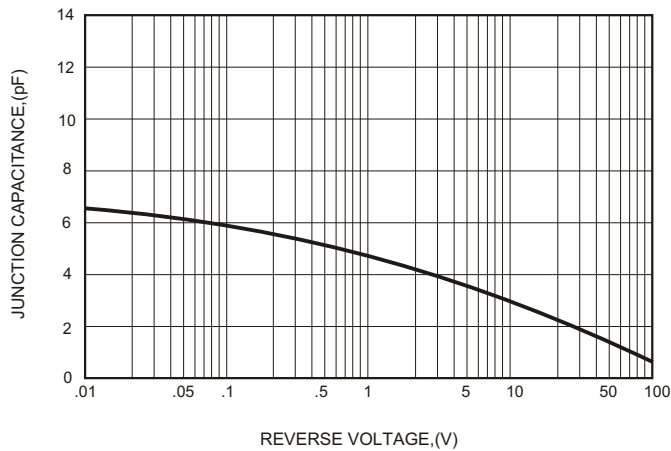


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

