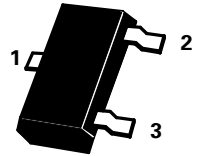
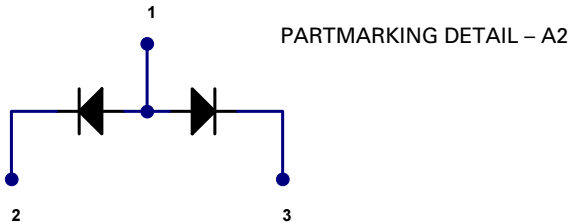


# SOT23 SILICON PLANAR HIGH SPEED SWITCHING COMMON ANODE DIODE PAIR

## FMMD2836

ISSUE 1 – FEBRUARY 1995

### DIODE PIN CONNECTION



SOT23

### ABSOLUTE MAXIMUM RATINGS.

| PARAMETER   | SYMBOL         | VALUE       | UNIT             |
|---|----------------|-------------|------------------|
| Breakdown Voltage ( $I_R=100\mu\text{A}$ )        | $V_{(BR)}$     | 75          | V                |
| Average Rectified Forward Current †               | $I_{F(AV)}$    | 100         | mA               |
| Repetitive Peak Forward Surge Current             | $I_{FRM}$      | 200         | mA               |
| Power Dissipation at $T_{amb} = 25^\circ\text{C}$ | $P_{tot}$      | 330         | mW               |
| Operating and Storage Temperature Range           | $T_j; T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

### ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$ unless otherwise stated).

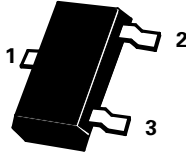
| PARAMETER         | SYMBOL   | MIN. | MAX. | UNIT | CONDITIONS.                                    |
|-------------------|----------|------|------|------|--|
| Forward Voltage   | $V_F$    |      | 1.0  | V    | $I_F=10\text{mA}$                              |
|                   |          |      | 1.0  | V    | $I_F=50\text{mA}$                              |
|                   |          |      | 1.2  | V    | $I_F=100\text{mA}$                             |
| Reverse Current   | $I_R$    |      | 100  | nA   | $V_R=50\text{V}$                               |
| Recovery Time*    | $t_{rr}$ |      | 6    | ns   | $I_F=I_R=10\text{mA}, I_{R(REC)}=1.0\text{mA}$ |
| Diode Capacitance | $C_d$    |      | 4    | pF   | $V_R=0, f=1\text{MHz}$                         |

\*For switching test circuit diagram see page

†Over any 20ms period

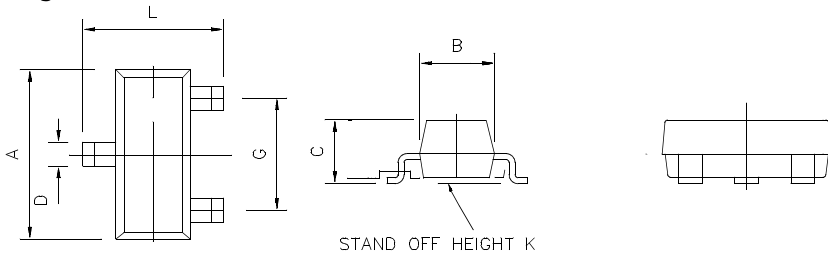
Spice parameter data is available upon request for this device

# FMMD2836



| DIM | Millimeters |      | Inches    |        |
|-----|-------------|------|-----------|--------|
|     | Min         | Max  | Min       | Max    |
| A   | 2.67        | 3.05 | 0.105     | 0.120  |
| B   | 1.20        | 1.40 | 0.047     | 0.055  |
| C   | -           | 1.10 | -         | 0.043  |
| D   | 0.37        | 0.53 | 0.0145    | 0.021  |
| F   | 0.085       | 0.15 | 0.0033    | 0.0059 |
| G   | NOM 1.9     |      | NOM 0.075 |        |
| K   | 0.01        | 0.10 | 0.0004    | 0.004  |
| L   | 2.10        | 2.50 | 0.0825    | 0.0985 |
| N   | NOM 0.95    |      | NOM 0.37  |        |

## Package Details



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