



**MLDFN0.6x0.3-2L-A Plastic-Encapsulate Diodes**

**DS521-30EAA02** SCHOTTKY BARRIER DIODE

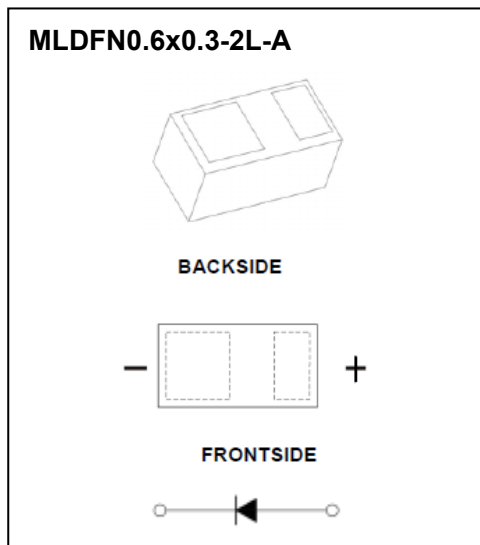
**FEATURE**

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

**APPLICATION**

- High speed switching for detection
- For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM, DVD-ROM, Note book PC, etc.)

**MARKING: F**



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

| Symbol          | Parameter  | Limit      | Unit                        |
|-----------------|--|------------|-----------------------------|
| $V_{RRM}$       | Repetitive Peak Reverse Voltage                    | 30         | V                           |
| $V_{RWM}$       | Working Peak Reverse Voltage                       |            |                             |
| $V_{R(RMS)}$    | RMS Reverse Voltage                                | 21         | V                           |
| $I_o$           | Average Rectified Output Current                   | 100        | mA                          |
| $I_{FSM}$       | Non-Repetitive Peak Forward Surge Current@ t=8.3ms | 0.5        | A                           |
| $P_d$           | Power Dissipation                                  | 100        | mW                          |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient        | 1000       | $^{\circ}\text{C}/\text{W}$ |
| $T_J$           | Junction temperature                               | 125        | $^{\circ}\text{C}$          |
| $T_{stg}$       | Storage Temperature                                | -55 ~ +150 | $^{\circ}\text{C}$          |

**ELECTRICAL CHARACTERISTICS** ( $T_a = 25^{\circ}\text{C}$  unless otherwise specified)

| Parameter                 | Symbol     | Test Condition      | Min | Typ | Max  | Unit          |
|---------------------------|------------|---------------------|-----|-----|------|---------------|
| Reverse breakdown voltage | $V_{(BR)}$ | $I_R=50\mu\text{A}$ | 30  |     |      | V             |
| Reverse current           | $I_R$      | $V_R=10\text{V}$    |     |     | 10   | $\mu\text{A}$ |
|                           |            | $V_R=30\text{V}$    |     |     | 50   | $\mu\text{A}$ |
| Forward voltage           | $V_F$      | $I_F=10\text{mA}$   |     |     | 0.38 | V             |
|                           |            | $I_F=100\text{mA}$  |     |     | 0.80 | V             |