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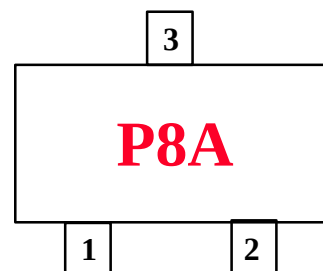
# FLLD261

## HIGH CONDUCTANCE LOW LEAKAGE DIODE

**Pd** ... 350 mW @ TA = 25 Deg C

**Bv** ... 200 V (MIN) @ IR = 5 uA

**PACKAGE**  
TO-236AB (Low)



### ABSOLUTE MAXIMUM RATINGS (NOTE 1)

#### TEMPERATURES

Storage Temperature -55 to +150 Degrees C

Operating Junction Temperature -55 to +150 Degrees C

### POWER DISSIPATION (NOTES 2 & 3)

Total Device Dissipation at TA = 25 Deg C 350 mW

Derating Factor per Degree C 2.8 mW

### VOLTAGES & CURRENTS

WIV Working Inverse Voltage 100 V

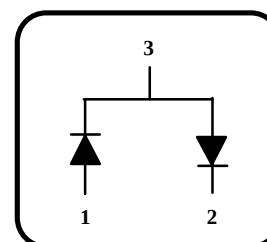
IO Average Rectified Current 250 mA

IF DC Forward Current 600 mA

if Recurrent Peak Forward Current 700 mA

if (surge) Peak Forward Surge Current  
Pulse width = 1 second 1.0 A  
Pulse width = 1 microsec 3.0 A

### CONNECTION DIAGRAMS

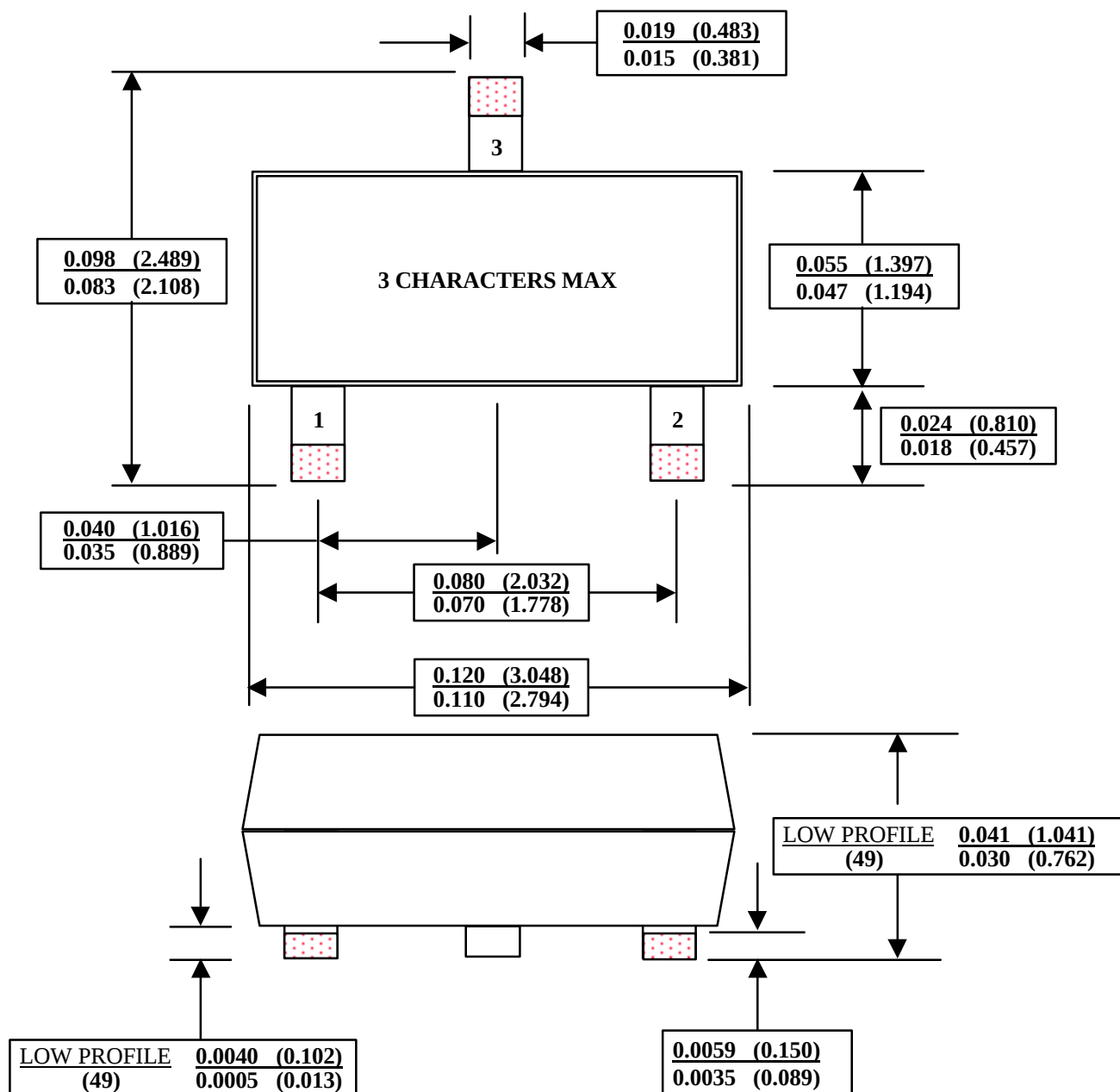


### ELECTRICAL CHARACTERISTICS (25 Degrees C Ambient Temperature unless otherwise stated)

| SYM | CHARACTERISTICS                 | MIN | MAX        | UNITS    | TEST CONDITIONS                                      |
|-----|---------------------------------|-----|------------|----------|------------------------------------------------------|
| Bv  | Breakdown Voltage               | 200 |            | V        | IR = 5.0 uA                                          |
| IR  | Reverse Voltage Leakage Current |     | 5.0<br>5.0 | nA<br>uA | VR = 100 V<br>VR = 100 V TA = 150 Deg C              |
| VF  | Forward Voltage                 |     | 1.40       | V        | IF = 200 mA                                          |
| CT  | Diode Capacitance               |     | 4.0        | pF       | VR = 1.0 V f = 1.0 MHz                               |
| TRR | Reverse Recovery Time           |     | 400        | ns       | IF = IR = 50 to 400 mA<br>IRR = 10% IR RL = 100 ohms |
| TFR | Forward Recovery Time           |     | 10         | ns       | IF = 10 mA                                           |
| VFM | Peak Forward Voltage            |     | 0.9<br>Typ | V        | IF = 10 mA<br>Rise Time = 5 ns +/-20%                |

#### NOTES:

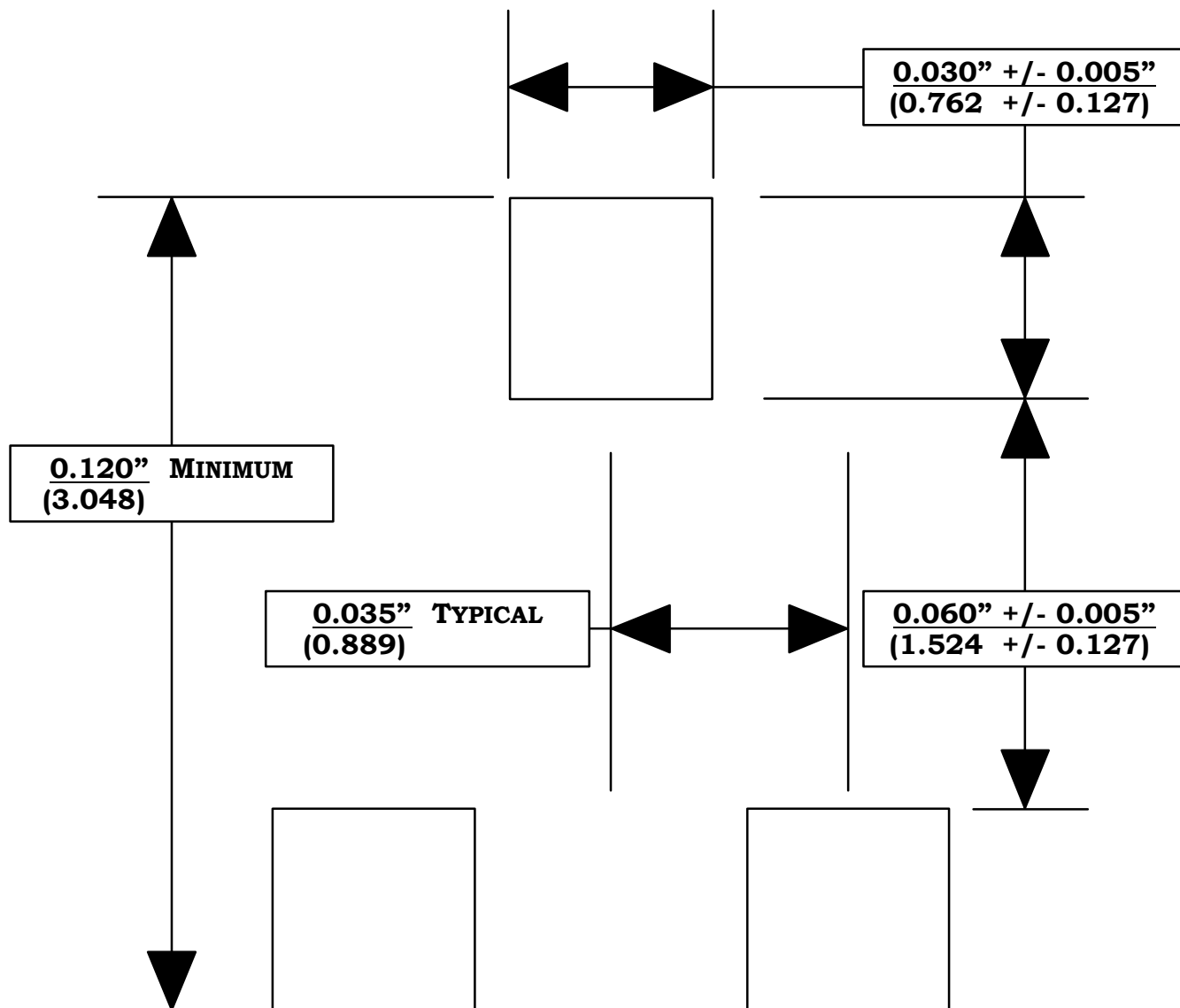
- These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.
- These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.



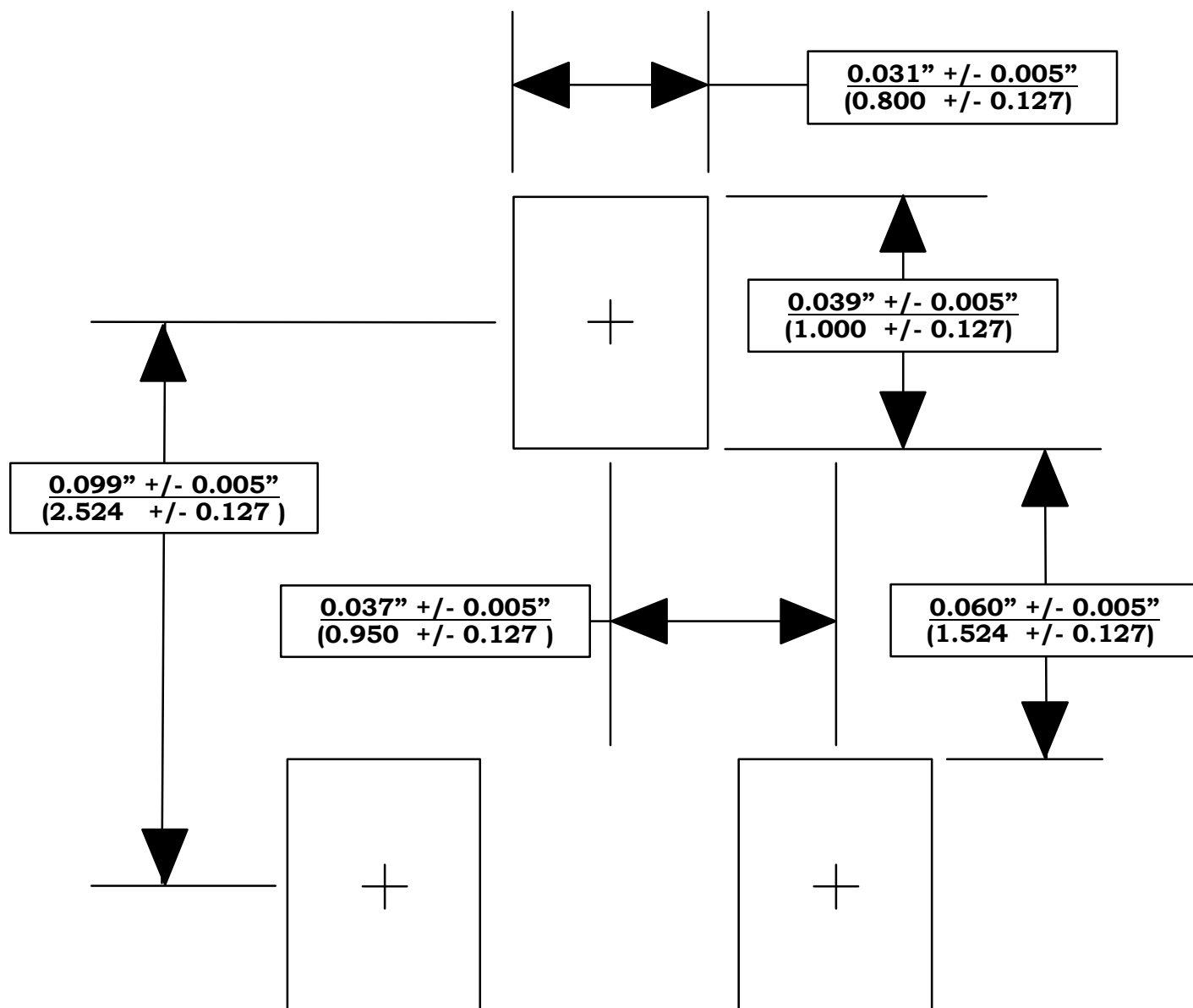
## SOT-23 (DIODE)

TO-236AB (LOW PROFILE)

11-March-1997



**RECOMMENDED SOLDER PADS  
FOR  
SOT-23**



**RECOMMENDED SOLDER PADS  
FOR  
U.S., European & Japanese (SC-59)  
SOT-23**

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