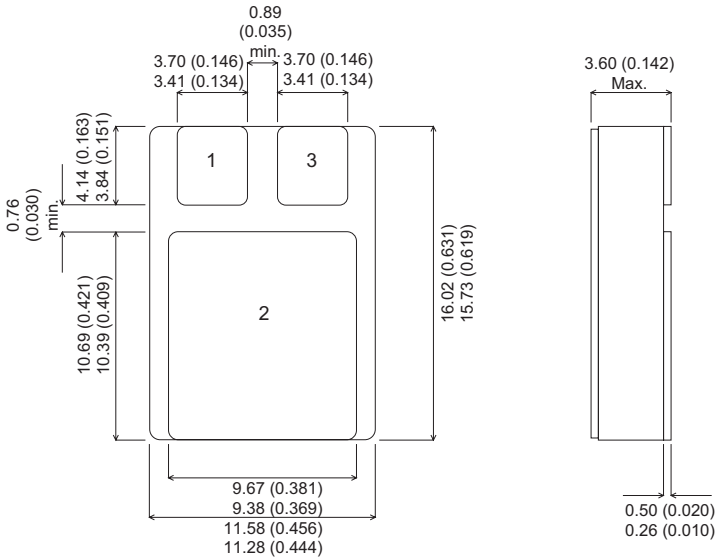


MECHANICAL DATA

Dimensions in mm



**SCHOTTKY BARRIER
DIODE IN SMD1
FOR HI-REL APPLICATIONS**

FEATURES

- HERMETIC CERAMIC PACKAGE
- ISOLATED CASE
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 60A
- LOW V_F
- LOW LEAKAGE

SMD1 (TO-276AB) Package



ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^\circ C$ unless otherwise stated)

| | | |
|---------------|---|----------------|
| V_{RRM} | Peak Repetitive Reverse Voltage | 45V |
| V_{RSM} | Peak Non-Repetitive Reverse Voltage | 45V |
| V_R | Continuous Reverse Voltage | 45V |
| I_O | Output Current | 60A |
| I_{FSM} | Peak Non-Repetitive Surge Current (50Hz) | 400A |
| T_{STG} | Storage Temperature Range | -55°C to 175°C |
| T_J | Maximum Operating Junction Temperature | 150°C |
| $R_{TH(j-c)}$ | Maximum Thermal Resistance Junction To Case | 0.625°C/W |
| P_D | Power Dissipation | 200W |

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

ELECTRICAL CHARACTERISTICS ($T_{CASE} = 25^{\circ}C$ unless otherwise stated)

| Parameter | | Test Conditions | | Min. | Typ. | Max. | Unit |
|-----------|----------------------|-----------------|----------------------|------|------|------|------|
| V_{FM} | Forward Voltage* | $I_F = 60A$ | $T_J = 25^{\circ}C$ | | | 1.2 | V |
| | | $I_F = 60A$ | $T_J = 125^{\circ}C$ | | | 0.95 | |
| I_{RM} | Reverse Current* | $V_R = 45V$ | $T_J = 25^{\circ}C$ | | | 2 | mA |
| | | $V_R = 45V$ | $T_J = 125^{\circ}C$ | | | 15 | |
| C_d | Junction Capacitance | $V_R = 5V$ | $f = 1MHz$ | | 1500 | | pF |

*Pulse test $t_p=300\mu s$ $\delta \leq 2\%$