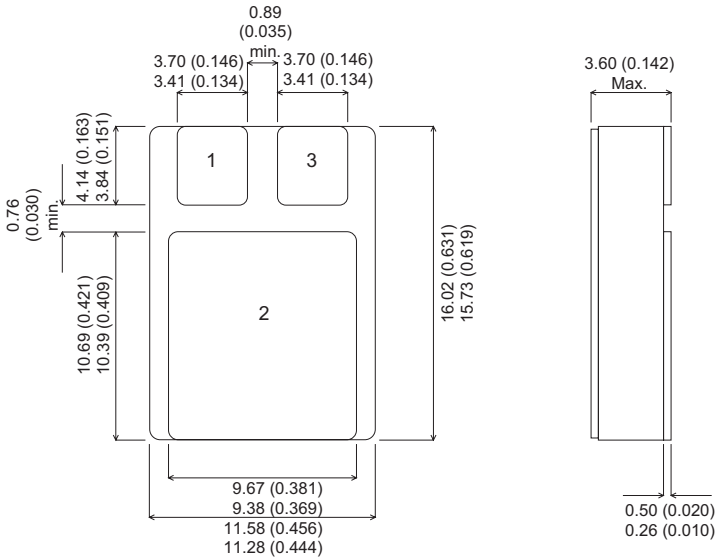


MECHANICAL DATA

Dimensions in mm



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

FEATURES

- HERMETIC CERAMIC PACKAGE
- ISOLATED CASE
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 30A
- 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	100V
V_{RSM}	Peak Non-Repetitive Reverse Voltage	100V
V_R	Continuous Reverse Voltage	100V
I_O	Output Current	30A
I_{FSM}	Peak Non-Repetitive Surge Current (50Hz)	245A
T_{STG}	Storage Temperature Range	-55°C to 150°C
T_J	Maximum Operating Junction Temperature	150°C
$R_{TH(j-c)}$	Maximum Thermal Resistance Junction To Case	0.5°C/W
P_D	Power Dissipation	250W

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*	$I_F = 30A$	$T_J = 25^{\circ}C$			0.8	V
	$I_F = 30A$	$T_J = 125^{\circ}C$			0.7	
I_{RM} Reverse Current*	$V_R = 100V$	$T_J = 25^{\circ}C$			2	mA
	$V_R = 100V$	$T_J = 125^{\circ}C$			25	
C_d Junction Capacitance	$V_R = 5V$	$f = 1MHz$		1400		pF

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