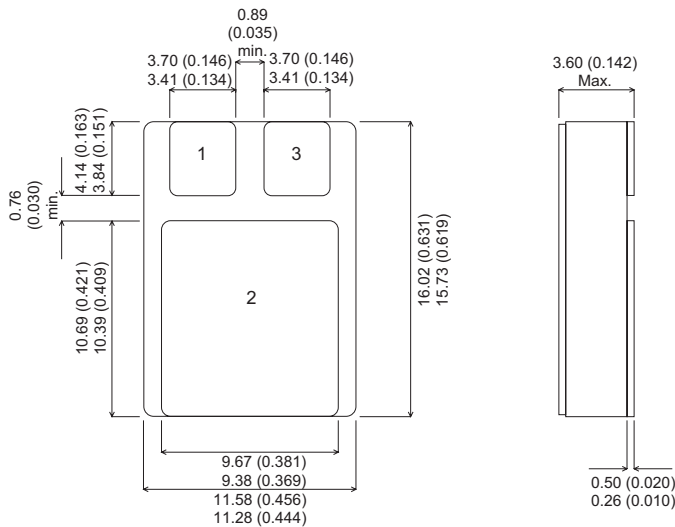


**MECHANICAL DATA**

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.

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Issue 2

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