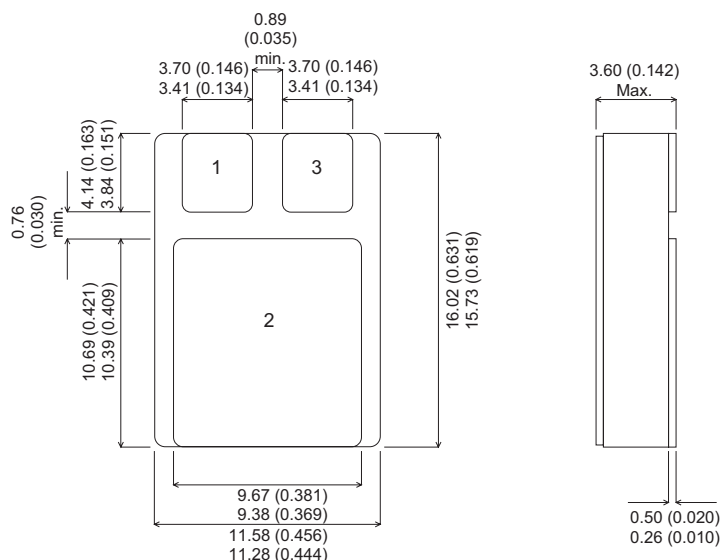


MECHANICAL DATA

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°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 $t_p=300\mu s$ $\delta \leq 2\%$