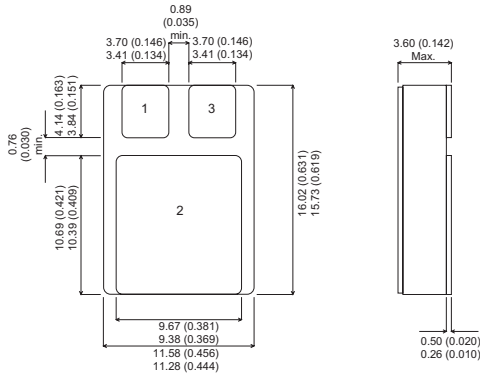


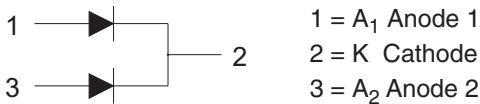
MECHANICAL DATA

Dimensions in mm



SMD1 PACKAGE

Common Cathode



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

FEATURES

- HERMETIC CERAMIC PACKAGE
- ISOLATED CASE
- AVAILABLE IN COMMON CATHODE, COMMON ANODE AND SERIES VERSIONS
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 30A
- LOW V_F
- LOW LEAKAGE

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

V_{RRM}	Peak Repetitive Reverse Voltage	40V
V_{RSM}	Peak Non-Repetitive Reverse Voltage	40V
V_R	Continuous Reverse Voltage	40V
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/W

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

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_F Forward Voltage	$I_F = 15A$ $T_J = 125^{\circ}C$			0.6	V
	$I_F = 20A$ $T_J = 25^{\circ}C$			0.8	
I_R Reverse Current	$V_R = V_{RRM}$ $T_J = 100^{\circ}C$			30	mA
	$V_R = V_{RRM}$ $T_J = 25^{\circ}C$			500	μA
C_d Junction Capacitance	$V_R = 5 V$ $f = 1 MHz$		500		pF

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

Parameter		Unit
$R_{TH(j-a)}$ Maximum Thermal Resistance Junction To Case	both diodes 1.4 per diode 2.3	$^{\circ}C/W$
$R_{TH(j-c)}$ Maximum Thermal Resistance Junction To Case	1.3	$^{\circ}C/W$

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