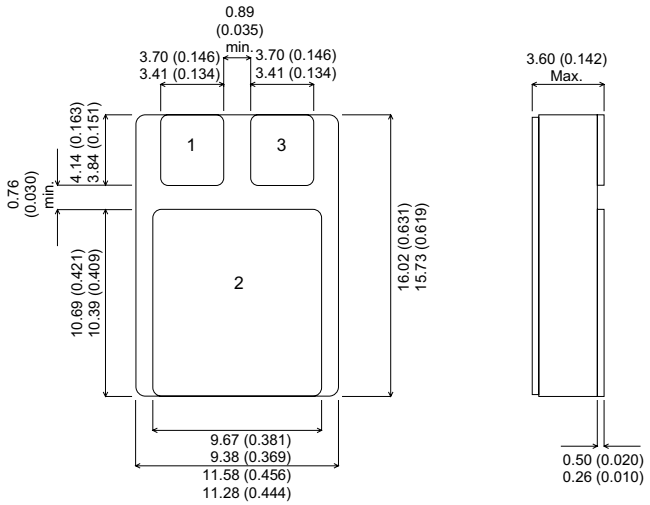
SB16-100M-SMD
SB16-100A-SMD
SB16-100R-SMD

DUAL SCHOTTKY BARRIER DIODE IN A SMD1 CERAMIC SURFACE MOUNT PACKAGE FOR HI–REL APPLICATIONS

MECHANICAL DATA
Dimensions in mm

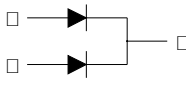
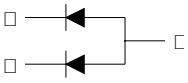
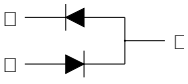


SMD1

FEATURES

- **HERMETIC CERAMIC PACKAGE**
- **ISOLATED CASE**
- **SCREENING OPTIONS AVAILABLE**
- **OUTPUT CURRENT 16A**
- **LOW V_F**
- **LOW LEAKAGE**

ELECTRICAL CONNECTIONS

Common Cathode	Common Anode	Series Connection
SB16-100M-SMD	**SB16-100A-SMD**	**SB16-100R-SMD**
		
1 = A_1 Anode 1	**1 = K_1 Cathode 1**	**1 = K_1 Cathode 1**
2 = K Cathode	**2 = A Anode**	**2 = Centre Tap**
3 = A_2 Anode 2	**3 = K_2 Cathode 2**	**3 = A_2 Anode**

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)		**SB16-100M-SMD SB16-100A-SMD SB16-100R-SMD**
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	16A
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

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SB16-100M-SMD
SB16-100A-SMD
SB16-100R-SMD

ELECTRICAL CHARACTERISTICS (Per Diode)(T_{CASE} = 25°C unless otherwise stated

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
V_F	Forward Voltage	I_F = 8A	T_J = 150°C			0.8	V
		I_F = 16A	T_J = 25°C			1.0	
I_R	Reverse Current	$V_R = V_{RRM}$	T_J = 150°C			30	mA
		$V_R = V_{RRM}$	T_J = 25°C			500	µA
C_d	Junction Capacitance	V_R = 5 V	f = 1 MHz		500		pF

Pulse test tp=300µs δ≤2%

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

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