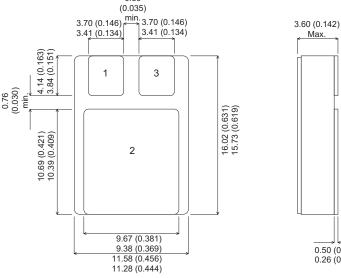


SB30-100MSMD SB30-100ASMD SB30-100RSMD

Dimensions in mm



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

FEATURES

- HERMETIC CERAMIC PACKAGE
- ISOLATED CASE
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 30A
- LOW V_F

SMD1 Package (TO-276AB)

Common Cathode	Common Anode	Series Connection		
SB30-100M	SB30-100A	SB30-100R		
1	1 —	1 — 2		
3	3	3		
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)

V_{RRM}	Peak Repetitive Reverse Voltage (Per Leg)	100V
V_{RSM}	Peak Non-Repetitive Reverse Voltage (Per Leg)	100V
V_{R}	Continuous Reverse Voltage (Per Leg)	100V
$I_{F(AV)}$	Maximum Average Forward Current	30A
I _{FSM*}	Peak Non-Repetitive Surge Current (per leg)	100A
T_{STG}	Storage Temperature Range	-55°C to 150°C
T_J	Maximum Operating Junction Temperature	150°C

0.50 (0.020) 0.26 (0.010)

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 $t_D = 8.3$ ms half-sine



SB30-100MSMD SB30-100ASMD SB30-100RSMD

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

	Parameter	Test	Conditions	Min.	Тур.	Max.	Unit
		I _F = 15A	T _J = 25°C			1.03	
V _F	Maximum Forward Voltage Drop (per diode)*	I _F = 30A	T _J = 25°C			1.27	V
		I _F = 15A	T _J = 125°C			0.77	
		I _F = 30A	T _J = 125°C			0.95	
I _R	Reverse Maximum	V _R = 100V	T _J = 25°C			0.55	mA
	Leakage Current (per diode)*	V _R = 100V	T _J = 125°C			9.0	
C _T	Junction Capacitance (per diode)	V _R = 5 V	f = 1 MHz		215		pF

^{*}Pulse test tp=300μs δ≤2%

	Parameter			Unit
R _{TH(j-c)}	Maximum Thermal Resistance Junction To Case	(per package)	1.3	°C/W
R _{TH(j-c)}	Maximum Thermal Resistance Junction To Case	(per diode)	2.4	°C/W

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