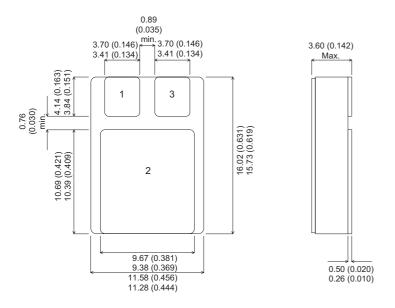


SB30-45MSMD SB30-45ASMD SB30-45RSMD

MECHANICAL DATA

Dimensions in mm



SMD1 (TO-276AB) CERAMIC PACKAGE

Common Cathode Common Anode Series Connection SB30-45M **SB30-45A SB30-45R** $1 = A_1$ Anode 1 1 = K₁ Cathode 1 1 = K₁ Cathode 1 2 = K Cathode 2 = A Anode 2 = Centre Tap $3 = K_2$ Cathode 2 $3 = A_2$ Anode 2 $3 = A_2$ Anode

DUAL SCHOTTKY **BARRIER DIODE** IN CERAMIC SURFACE MOUNT PACKAGE FOR **HI-REL APPLICATIONS**

FEATURES

- HERMETIC CERAMIC PACKAGE
- 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°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 _{F(AV)}	Maximum Average Forward Current	30A
I _{FSM}	Peak Non-Repetitive Surge Current at 50Hz (per leg)	245A
T _{STG}	Storage Temperature Range	-55°C to 150°C
T_J	Maximum Operating Junction Temperature	150°C

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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Website: http://www.semelab.co.uk



SB30-45MSMD SB30-45ASMD SB30-45RSMD

ELECTRICAL CHARACTERISTICS (T_{CASF} = 25°C unless otherwise stated

	Parameter	Tes	st Conditions	Min.	Тур.	Max.	Unit
		I _F = 15A	$T_J = 25^{\circ}C$			0.6	
V _F	Maximum Forward Voltage Drop	I _F = 30A	T _J = 25°C			0.75	$]$ $_{V}$ $ $
	(per diode)*	I _F = 15A	T _J = 125°C			0.55]
		I _F = 30A	T _J = 125°C			0.7	
I _R	Reverse Maximum	V _R = 45V	T _J = 25°C			2	mA
	Leakage Current (per diode)*	V _R = 45V	T _J = 125°C			75	
C _d	Junction Capacitance	V _R = 5 V	f = 1 MHz		900		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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