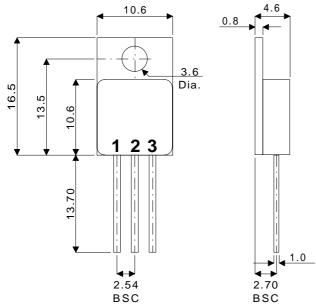


SB30-45M **SB30-45AM SB30-45RM**

SB30-40M SB30-40AM SB30-40RM

MECHANICAL DATA

Dimensions in mm



TO220 (TO-257AB) METAL PACKAGE

DUAL SCHOTTKY BARRIER DIODE IN TO220 METAL PACKAGE FOR HI-REL APPLICATIONS

FEATURES

- HERMETIC TO220 METAL PACKAGE
- ISOLATED CASE
- AVAILABLE IN COMMON CATHODE, **COMMON ANODE AND SERIES VERSIONS**
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 30A

SB30-40M

SB30-45M

- LOW V_F
- LOW LEAKAGE

Common Cathode	Common Anode	Series Connection		
SB30-45M SB30-40M	SB30-45AM SB30-40AM	SB30-45RM SB30-40RM		
—		—		

 $1 = A_1$ Anode 1

2 = K Cathode $3 = A_2$ Anode 2 $1 = K_1$ Cathode 1

2 = A Anode $3 = K_2$ Cathode 2 $1 = K_1$ Cathode 1

2 = Centre Tap $3 = A_2$ Anode

ABSOLU	TE MAXIMUM RATINGS (T _{case} = 25°C unless otherwise stated)	SB30-40AM SB30-40RM	SB30-45AM SB30-45RM
V_{RRM}	Peak Repetitive Reverse Voltage	40V	45V
V_{RSM}	Peak Non-Repetitive Reverse Voltage	40V	45V
V_{R}	Continuous Reverse Voltage	40V	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	

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Website: http://www.semelab.co.uk E-mail: sales@semelab.co.uk



SB30-45M SB30-45AM SB30-45RM SB30-40M SB30-40AM SB30-40RM

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

	Parameter	Test	Conditions	Min.	Тур.	Max.	Unit
		I _F = 15A	T _J = 25°C			0.6	
V_{F}	Maximum Forward Voltage Drop	I _F = 20A	$T_J = 25^{\circ}C$			0.7	V
	(per leg)*	I _F = 15A	T _J = 125°C			0.7]
		I _F = 20A	T _J = 125°C			0.8	
I _R	Reverse Maximum	$V_R = V_{RRM}$	T _J = 25°C			500	μΑ
	Leakage Current*	$V_R = V_{RRM}$	T _J = 125°C			30	mA
C _d	Junction Capacitance	V _R = 5 V	f = 1 MHz		500		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 leg)	2.4	°C/W

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