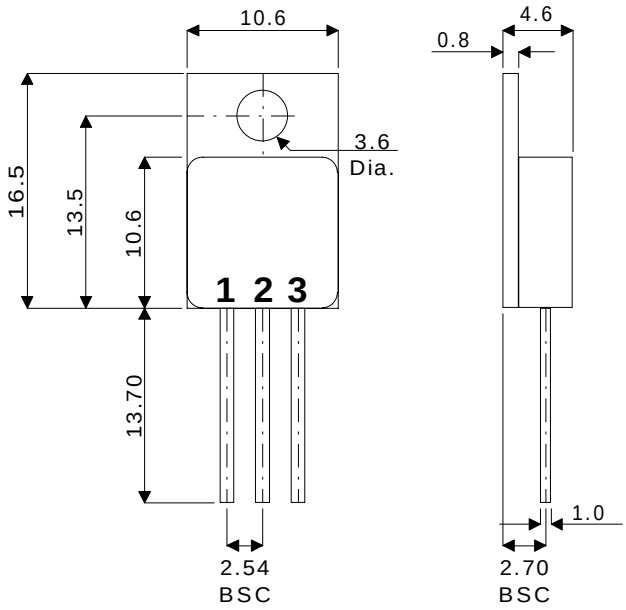
SB30-45M **SB30-40M**
SB30-45AM **SB30-40AM**
SB30-45RM **SB30-40RM**

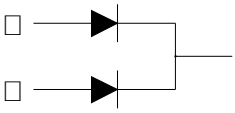
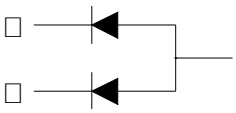
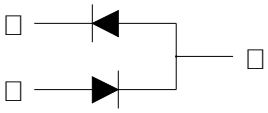
MECHANICAL DATA
Dimensions in mm



TO220 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**
- **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

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)		SB30-40M SB30-40AM SB30-40RM	SB30-45M 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_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	

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SEME LAB

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

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

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
V_F	Forward Voltage	I_F = 15A	T_J = 125°C			0.6	V
		I_F = 20A	T_J = 25°C			0.8	
I_R	Reverse Current	$V_R = V_{RRM}$	T_J = 100°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