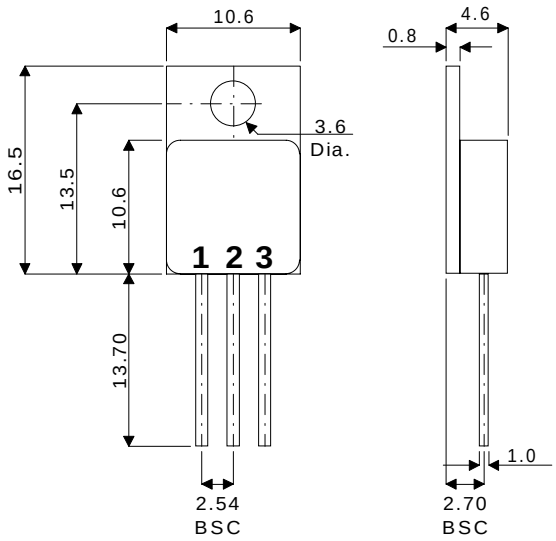
SB16-45M **SB16-40M**
SB16-45AM **SB16-40AM**
SB16-45RM **SB16-40RM**

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

MECHANICAL DATA

Dimensions in mm

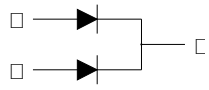
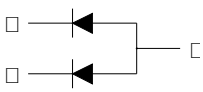
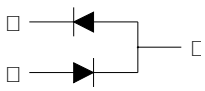


TO220 METAL PACKAGE

FEATURES

- **HERMETIC TO220 METAL PACKAGE**
- **ISOLATED CASE**
- **AVAILABLE IN COMMON CATHODE, COMMON ANODE AND SERIES VERSIONS**
- **SCREENING OPTIONS AVAILABLE**
- **OUTPUT CURRENT 16A**
- **LOW V_F**
- **LOW LEAKAGE**

ELECTRICAL CONNECTIONS

Common Cathode	Common Anode	Series Connection
SB16-45M **SB16-40M**	**SB16-45AM** **SB16-40AM**	**SB16-45RM** **SB16-40RM**
		
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)

		SB16-40M SB16-40AM SB16-40RM	SB16-45M SB16-45AM SB16-45RM
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	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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SEME LAB

SB16-45M SB16-40M
SB16-45AM SB16-40AM
SB16-45RM SB16-40RM

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

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
V_F	Forward Voltage	I_F = 8A	T_J = 150°C			0.6	V
		I_F = 16A	T_J = 25°C			0.8	
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