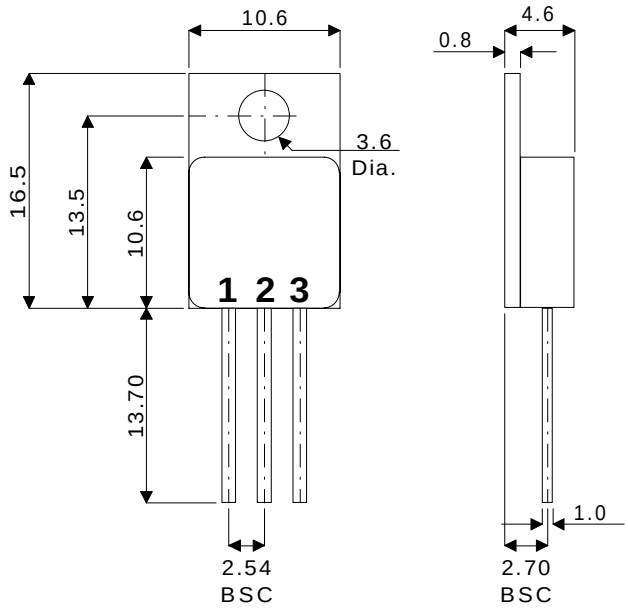
SB30-45M **SB30-40M**
SB30-45AM **SB30-40AM**
SB30-45RM **SB30-40RM**

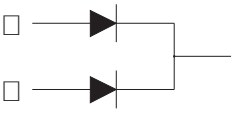
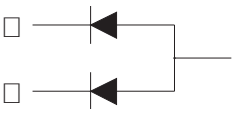
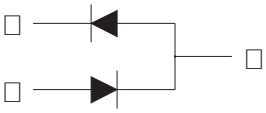
MECHANICAL DATA
Dimensions in mm



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**
- **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	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)		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
$I_{F(AV)}$	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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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	Maximum Forward Voltage Drop (per leg)*	I_F = 15A	T_J = 25℃			0.6	V
		I_F = 20A	T_J = 25℃			0.7	
		I_F = 15A	T_J = 125℃			0.7	
		I_F = 20A	T_J = 125℃			0.8	
I_R	Reverse Maximum Leakage Current*	$V_R = V_{RRM}$	T_J = 25℃			500	µA
		$V_R = V_{RRM}$	T_J = 125℃			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	℃/W
$R_{TH(j-c)}$	Maximum Thermal Resistance Junction To Case	(per leg)	2.4	℃/W

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