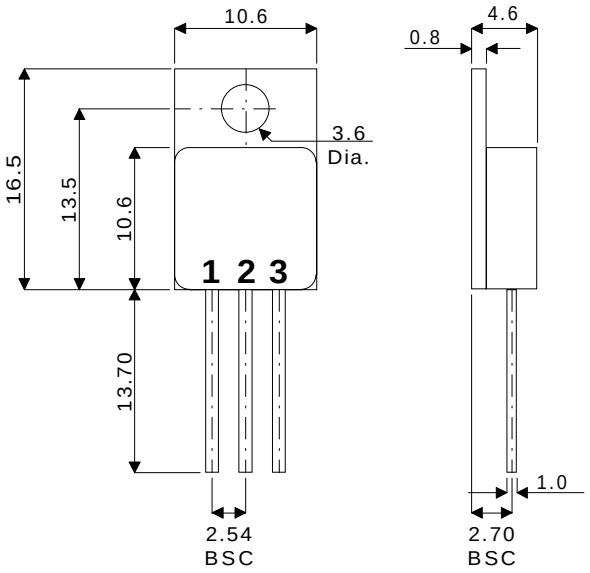
SEME LAB

SB30-100M
SB30-100AM
SB30-100RM

MECHANICAL DATA
Dimensions in mm

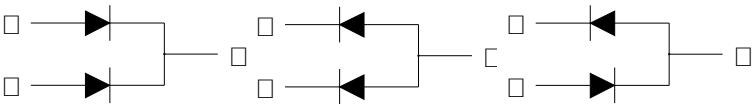


TO220 METAL PACKAGE

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

FEATURES
- HERMETIC TO220 METAL PACKAGE
- ISOLATED CASE
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 30A
- LOW V_F
- LOW LEAKAGE

Common Cathode	Common Anode	Series Connection
SB30-100M	SB30-100AM	SB30-100RM



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)		SB30-100M SB30-100AM SB30-100RM
V_{RRM}	Peak Repetitive Reverse Voltage	100V
V_{RSM}	Peak Non-Repetitive Reverse Voltage	100V
V_R	Continuous Reverse Voltage	100V
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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Prelim. 4/98

SEME LAB

SB30-100M
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ELECTRICAL CHARACTERISTICS (Per Diode)(T_{CASE} = 25°C unless otherwise stated

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
V_F	Forward Voltage	I_F = 16.5A	T_J = 150°C			1.0	V
		I_F = 33A	T_J = 25°C			1.3	
I_R	Reverse Current	$V_R = V_{RRM}$	T_J= 150°C			30	mA
		$V_R = V_{RRM}$				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

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