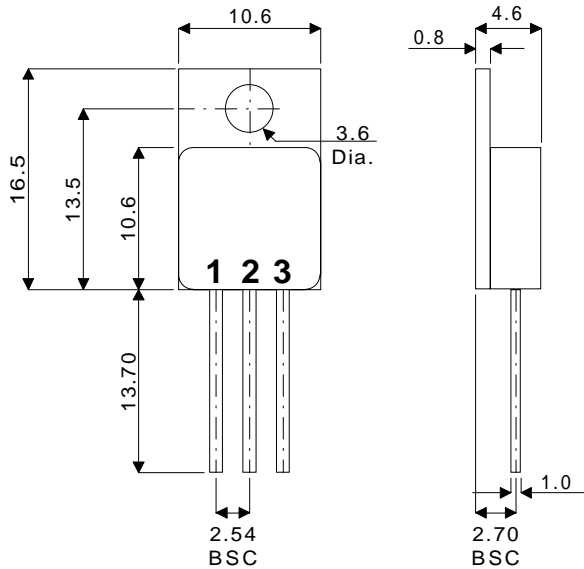


**MECHANICAL DATA**

Dimensions in mm



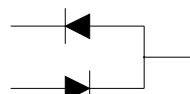
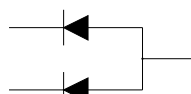
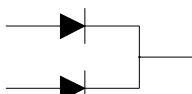
**DUAL SCHOTTKY  
BARRIER DIODE IN  
TO220 METAL PACKAGE  
FOR HI-REL APPLICATIONS**

**FEATURES**

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

**TO220 METAL PACKAGE**

<b>Common Cathode</b>	<b>Common Anode</b>	<b>Series Connection</b>
<b>SB30-100M</b>	<b>SB30-100AM</b>	<b>SB30-100RM</b>



1 = A <sub>1</sub> Anode 1	1 = K <sub>1</sub> Cathode 1	1 = K <sub>1</sub> Cathode 1
2 = K Cathode	2 = A Anode	2 = Centre Tap
3 = A <sub>2</sub> Anode 2	3 = K <sub>2</sub> Cathode 2	3 = A <sub>2</sub> Anode

**ABSOLUTE MAXIMUM RATINGS** ( $T_{case} = 25^\circ C$  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

**ELECTRICAL CHARACTERISTICS** (Per Diode)( $T_{CASE} = 25^{\circ}C$  unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
$V_F$ Forward Voltage	$I_F = 16.5A$ $T_J = 150^{\circ}C$			1.0	V
	$I_F = 33A$ $T_J = 25^{\circ}C$			1.3	
$I_R$ Reverse Current	$V_R = V_{RRM}$ $T_J = 150^{\circ}C$			30	mA
	$V_R = V_{RRM}$			500	$\mu A$
$C_d$ Junction Capacitance	$V_R = 5 V$ $f = 1 MHz$		500		pF

Pulse test  $t_p=300\mu s$        $\delta \leq 2\%$

Parameter		Unit
$R_{TH(j-a)}$ Maximum Thermal Resistance Junction To Case	both diodes 1.4 per diode 2.3	$^{\circ}C/W$
$R_{TH(j-c)}$ Maximum Thermal Resistance Junction To Case	1.3	$^{\circ}C/W$