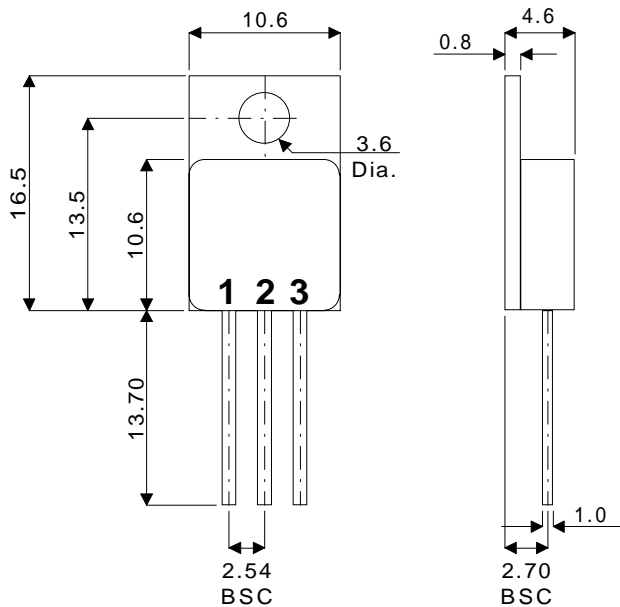


MECHANICAL DATA

Dimensions in mm



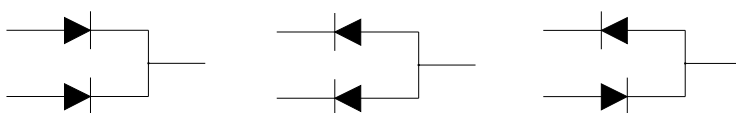
**DUAL SCHOTTKY
 BARRIER DIODE IN
 TO220 METAL PACKAGE
 FOR HI-REL APPLICATIONS**

FEATURES

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

TO220 METAL PACKAGE

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



1 = A₁ Anode 1 1 = K₁ Cathode 1 1 = K₁ Cathode 1
 2 = K Cathode 2 = A Anode 2 = Centre Tap
 3 = A₂ Anode 2 3 = K₂ Cathode 2 3 = A₂ 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 | μA |
| 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 $^{\circ}C/W$ |