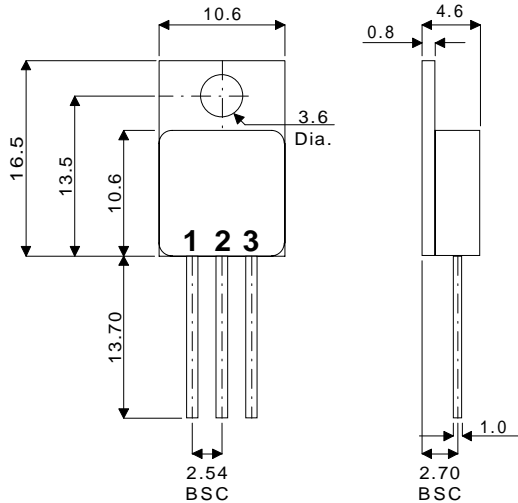


MECHANICAL DATA
Dimensions in mm



TO220 METAL PACKAGE

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

FEATURES

- HERMETIC TO220 METAL PACKAGE
- ISOLATED CASE
- AVAILABLE IN COMMON CATHODE, COMMON ANODE AND SERIES

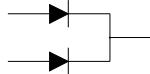
VERSIONS

- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 16A
- LOW V_F
- LOW LEAKAGE

ELECTRICAL CONNECTIONS

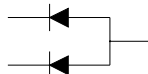
Common Cathode Common Anode Series Connection

**SB16-45M
SB16-40M**



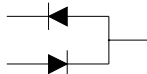
**1 = A₁ Anode 1
2 = K Cathode
3 = A₂ Anode 2**

**SB16-45AM
SB16-40AM**



**1 = K₁ Cathode 1
2 = A Anode
3 = K₂ Cathode 2**

**SB16-45RM
SB16-40RM**



**1 = K₁ Cathode 1
2 = Centre Tap
3 = A₂ Anode**

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

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

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_F Forward Voltage	$I_F = 8A$ $T_J = 150^{\circ}C$			0.6	V
	$I_F = 16A$ $T_J = 25^{\circ}C$			0.8	
I_R Reverse Current	$V_R = V_{RRM}$ $T_J = 150^{\circ}C$			30	mA
	$V_R = V_{RRM}$ $T_J = 25^{\circ}C$			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 $^{\circ}C/W$