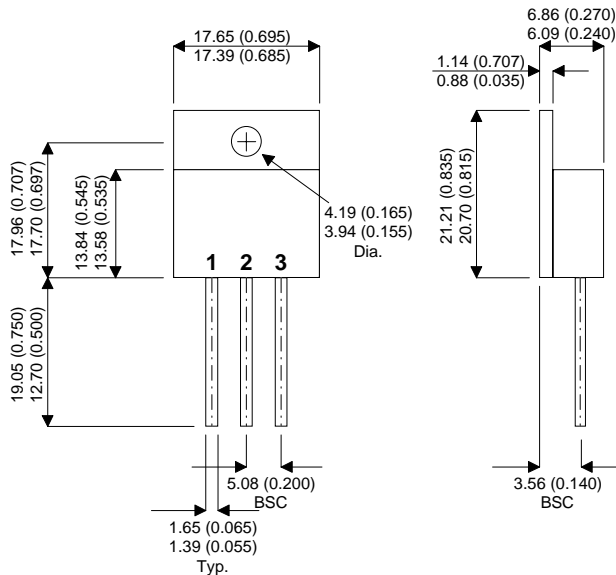


**MECHANICAL DATA**

Dimensions in mm



**TO258 METAL PACKAGE**

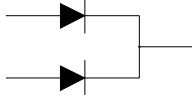
**DUAL SCHOTTKY  
 BARRIER DIODE IN  
 TO258 METAL PACKAGE  
 FOR HI-REL APPLICATIONS**

**FEATURES**

- HERMETIC TO258 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**

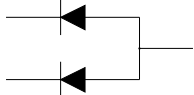
**SB30-45-258M**  
**SB30-40-258M**



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

**Common Anode**

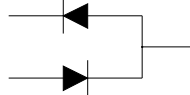
**SB30-45-258AM**  
**SB30-40-258AM**



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

**Series Connection**

**SB30-45-258RM**  
**SB30-40-258RM**



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

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

		<b>SB30-40-258M</b>	<b>SB30-45-258M</b>
		<b>SB30-40-258AM</b>	<b>SB30-45-258AM</b>
		<b>SB30-40-258RM</b>	<b>SB30-45-258RM</b>
$V_{RRM}$	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	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	$I_F = 15A$ $T_J = 125^{\circ}C$			0.6	V
	$I_F = 20A$ $T_J = 25^{\circ}C$			0.8	
$I_R$ Reverse Current	$V_R = V_{RRM}$ $T_J = 100^{\circ}C$			30	mA
	$V_R = V_{RRM}$ $T_J = 25^{\circ}C$			500	$\mu A$
$C_d$ Junction Capacitance	$V_R = 5 V$ $f = 1 MHz$		500		pF

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

**THERMAL CHARACTERISTICS**

$R_{TH(j-c)}$	Maximum Thermal Resistance Junction To Case	2.0	$^{\circ}C/W$
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