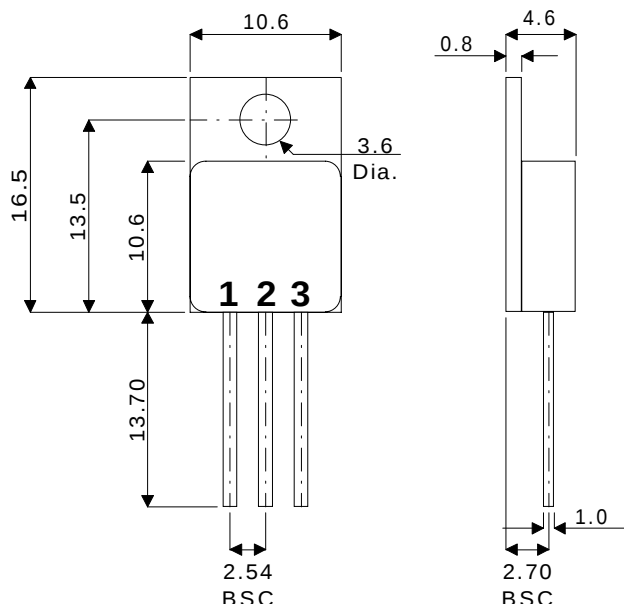


MECHANICAL DATA

Dimensions in mm



TO220 (TO-257AB) METAL PACKAGE

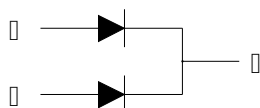
DUAL SCHOTTKY BARRIER DIODE IN TO220 METAL PACKAGE FOR HI-REL APPLICATIONS

FEATURES

- HERMETIC TO220 METAL PACKAGE
- ISOLATED CASE
- AVAILABLE IN COMMON CATHODE, COMMON ANODE AND SERIES VERSIONS
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 30A
- LOW V_F
- LOW LEAKAGE

Common Cathode

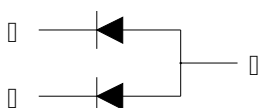
SB30-45M
SB30-40M



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

Common Anode

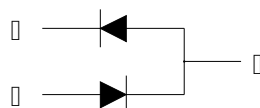
SB30-45AM
SB30-40AM



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

Series Connection

SB30-45RM
SB30-40RM



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

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

		SB30-40M SB30-40AM SB30-40RM	SB30-45M SB30-45AM SB30-45RM
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 _{F(AV)}	Maximum Average Forward Current	30A	
I _{FSM}	Peak Non-Repetitive Surge Current at 50Hz (per leg)	245A	
T _{STG}	Storage Temperature Range	-55°C to 150°C	
T _J	Maximum Operating Junction Temperature	150°C	

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

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_F Maximum Forward Voltage Drop (per leg)*	$I_F = 15A$ $T_J = 25^{\circ}C$			0.6	V
	$I_F = 30A$ $T_J = 25^{\circ}C$			0.7	
	$I_F = 15A$ $T_J = 125^{\circ}C$			0.7	
	$I_F = 30A$ $T_J = 125^{\circ}C$			0.8	
I_R Reverse Maximum Leakage Current*	$V_R = V_{RRM}$ $T_J = 25^{\circ}C$			500	μA
	$V_R = V_{RRM}$ $T_J = 125^{\circ}C$			30	mA
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
$R_{TH(j-c)}$ Maximum Thermal Resistance Junction To Case (per package)	1.3 $^{\circ}C/W$
$R_{TH(j-c)}$ Maximum Thermal Resistance Junction To Case (per leg)	2.4 $^{\circ}C/W$