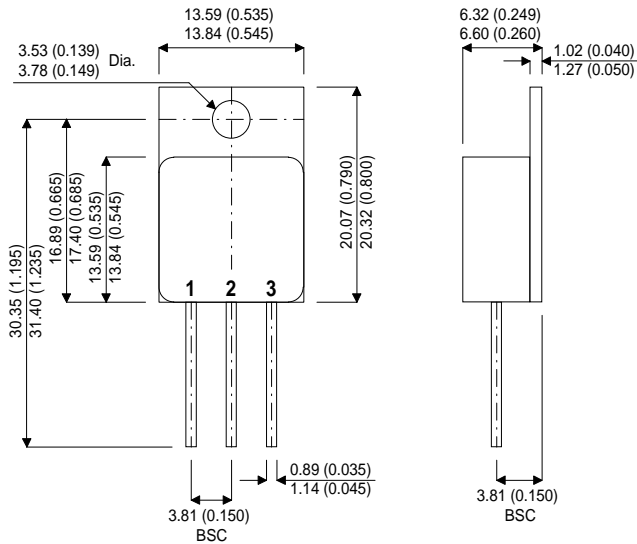


MECHANICAL DATA

Dimensions in mm

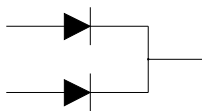
**DUAL SCHOTTKY
BARRIER DIODE IN
TO254 METAL PACKAGE
FOR HI-REL APPLICATIONS**



TO254 METAL PACKAGE

Common Cathode

SB35-45M
SB35-40M



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

FEATURES

- HERMETIC TO254 METAL PACKAGE
- ISOLATED CASE
- SCREENING OPTIONS AVAILABLE
- OUTPUT CURRENT 35A
- LOW V_F
- LOW LEAKAGE

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

	SB35-40M	SB35-45M
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	35A	
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	$I_F = 5A$			0.49	V
	$I_F = 25A$ $T_J = 125^{\circ}C$			0.85	
	$I_F = 50A$			1.25	
I_R Reverse Current	$V_R = V_{RRM}$ $T_J = 25^{\circ}C$			5	mA
	$V_R = V_{RRM}$ $T_J = 125^{\circ}C$			45	
C_d Junction Capacitance	$V_R = 5V$ $f = 1MHz$		3000		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	$^{\circ}C/W$