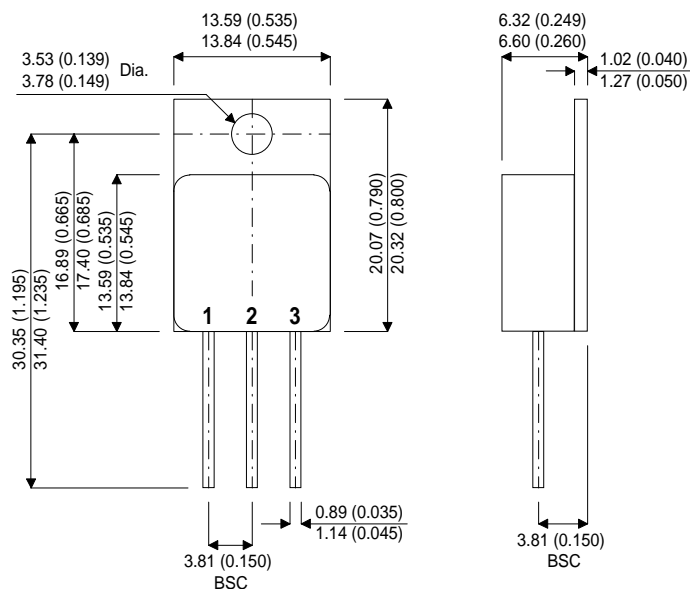


**MECHANICAL DATA**

Dimensions in mm



**TO-254METAL PACKAGE**

Pin 1 – Anode 1    Pin 2 – Cathode    Pin 3 – Anode 2

**DUAL SCHOTTKY  
BARRIER RECTIFIER  
IN A TO254  
HERMETICALLY  
SEALED PACKAGE  
FOR HI-REL APPLICATIONS**

**FEATURES**

- HERMETIC TO254 METAL PACKAGE
- ISOLATED CASE
- 16A, 45V
- COMMON CATHODE
- MILITARY OPTIONS AVAILABLE

<b>ABSOLUTE MAXIMUM RATINGS</b> ( $T_{case} = 25^{\circ}C$ unless otherwise stated)		<b>MBR1645</b>
$V_{RRM}$	Peak Repetitive Reverse Voltage	45V
$V_{RWM}$	Working Peak Reverse Voltage	45V
$I_{F(AV)}$	Average rectified Forward Current ( $T_C = 125^{\circ}C$ )	16A
$I_{FRM}$	Peak Repetitive Forward Current ( $T_C = 125^{\circ}C$ )	32A
$T_{FSM}$	Nonrepetitive Peak Surge Current	150A
$I_{RRM}$	Peak Repetitive Reverse Surge Current	10A
$R_{\theta JC}$	Thermal Resistance, Junction to Case	2°C/W

**ELECTRICAL CHARACTERISTICS** (Per Diode)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
$V_F$ Forward Voltage <sup>(1)</sup>	$I_F = 16A$ $T_C = 125^{\circ}C$			0.57	V
	$I_F = 16A$ $T_C = 25^{\circ}C$			0.63	
$I_R$ Reverse Current	$V_R = V_{RRM}$ $T_C = 125^{\circ}C$			40	mA
	$V_R = V_{RRM}$ $T_C = 25^{\circ}C$			0.2	

(1)Pulse Test: Pulse Width = 300  $\mu s$ . Duty Cycle  $\leq 2.0\%$