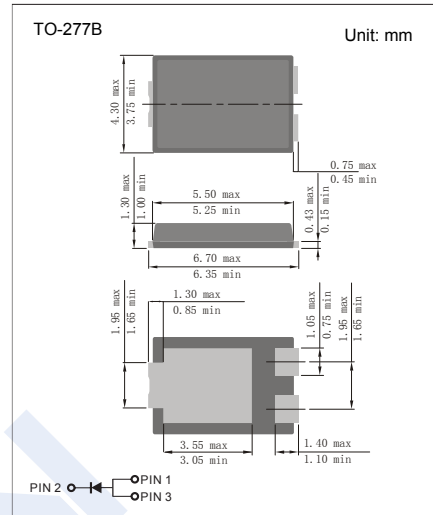


## Schottky Barrier Diodes

## KBR10U100SP5

## ■ Features

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Patented Super Barrier Rectifier Technology
- Soft, Fast Switching Capability

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_{DC}$		
Average Rectified Output Current	$I_o$	5	A
Per Leg		10	
Total			
Peak Forward Surge Current $T_a=25^\circ\text{C}$	$I_{FSM}$	150	
Typical Thermal Resistance	$R_{\theta JC}$	3	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to 150	

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_R$	$I_R = 0.1\text{mA}$	100			V
Forward voltage	$V_F$	$I_F = 5\text{A}, T_J = 25^\circ\text{C}$			0.67	
		$I_F = 5\text{A}, T_J = 125^\circ\text{C}$		0.53	0.56	
		$I_F = 10\text{A}, T_J = 25^\circ\text{C}$			0.82	
Reverse voltage leakage current	$I_R$	$V_F = 100\text{V}, T_J = 25^\circ\text{C}$			0.2	mA
		$V_F = 100\text{V}, T_J = 125^\circ\text{C}$			25	

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### Typical Characteristics

