

# Schottky Diode BYR 16-45

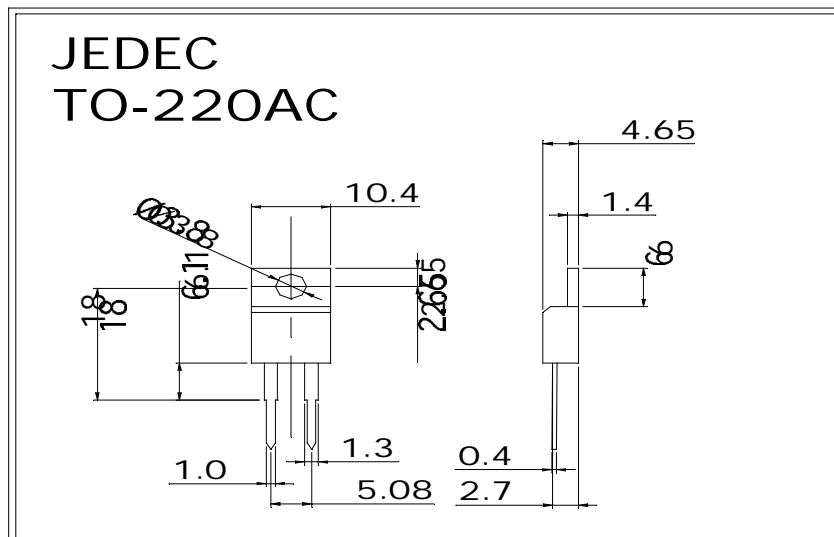
## Technical Data

**Typical Applications :** Ideally suited for use as Rectifiers in low voltage , High frequency invertors , Free wheeling diodes and Polarity protection diodes .

### Features :

- ☞ Extremely low voltage drop
- ☞ Low power loss/high efficiency
- ☞ Low stored charge , Majority carrier conduction
- ☞ High surge capacity

### Case Outline :



# Schottky Diode

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### Maximum Ratings :

Symbol	Parameters / Conditions	Ratings
<b>Electrical Characteristics :</b>		
$V_{RRM}$	Peak Repetitive Reverse Voltage	45 V
$I_{RRM}$	Leakage current ; $V_R = V_{RRM}$ ; $T_a = 25\text{ }^\circ\text{C}$	< 20.0 mA
$I_{FAV}$	Maximum average forward rectified current ; $T_a = 25\text{ }^\circ\text{C}$	16 A
$I_{FSM}$	Peak forward surge current ; $T_a = 25\text{ }^\circ\text{C}$ ; single half sine wave ; 10 ms	300 A
$V_F$	Forward voltage drop ; $T_{vj} = 25\text{ }^\circ\text{C}$ ; $I_F = 16\text{ A}$	0.55 V max
<b>Thermal Characteristics :</b>		
$R_{thjc}$	Thermal resistance junction to case	0.70 $^\circ\text{C}/\text{W}$
$R_{thch}$	Thermal resistance case to heat sink	0.30 $^\circ\text{C}/\text{W}$
$T_J$	Junction Temperature	125 $^\circ\text{C}$
$T_A$	Operating Temperature	-25 $^\circ\text{C}$ ....+ 125 $^\circ\text{C}$
$T_S$	Storage Temperature	-25 $^\circ\text{C}$ ....+ 125 $^\circ\text{C}$
<b>Outline :</b>		
Case Outline	Plastic Moulded Case	TO-220 AC