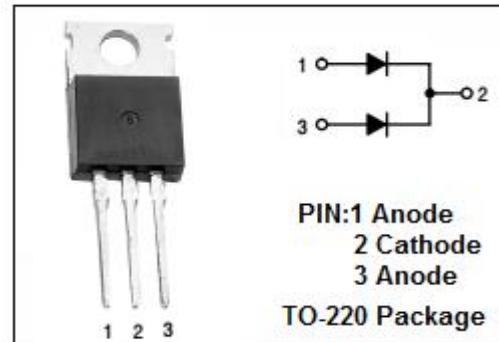


Fast Rectifier

BYV32E-200

FEATURES

- With TO-220 packaging
- High junction temperature capability
- Low forward voltage
- High current capability
- Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

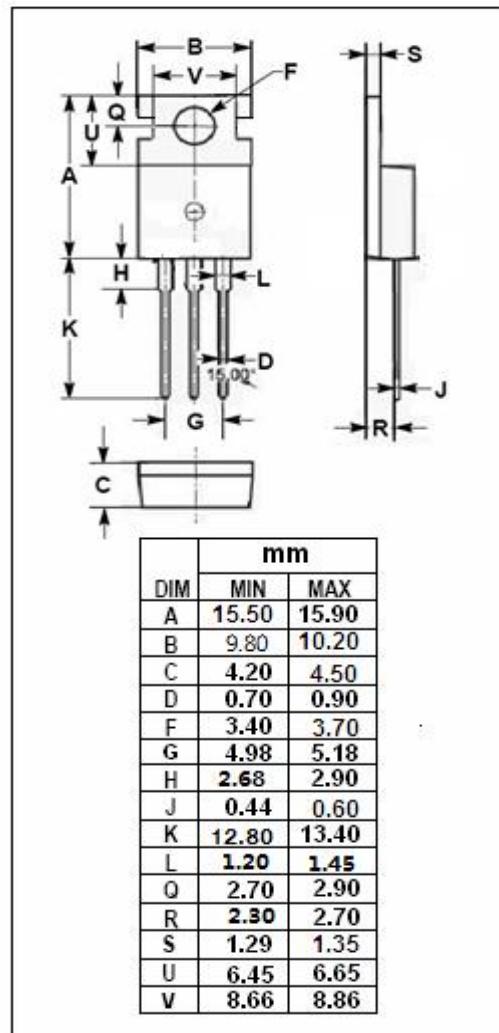


APPLICATIONS

- Switching power supply
- Free-Wheeling diodes
- Reverse battery protection

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Repetitive Reverse Voltage		
V_{RMS}	RMS Voltage	200	V
V_R	DC Blocking Voltage		
$I_{F(AV)}$	Average Rectified Forward Current @ $T_c=100^\circ\text{C}$	20	A
I_{FSM}	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	125	A
T_J	Junction Temperature	-40~150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-40~150	$^\circ\text{C}$



Fast Rectifier**BYV32E-200****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.4	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F =20A	1.15	V
I _R	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ; @T _j =25°C T _j =100°C	30 600	μ A
t _{rr}	Maximum Reverse Recovery Time	I _F =1A; dI _F /dt=-100A/ μ s; V _R =30V	25	ns