2% 132 2020 Q应商

SWITCHMODE[™] Power Rectifier

Features and Benefits

- Low Forward Voltage
- Low Power Loss/High Efficiency
- High Surge Capacity
- 175°C Operating Junction Temperature
- 16 A Total (8 A Per Diode Leg)
- Pb-Free Packages are Available*

Applications

- Power Supply Output Rectification
- Power Management
- Instrumentation

Mechanical Characteristics

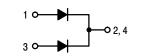
- Case: Epoxy, Molded
- Epoxy Meets UL 94 V-0 @ 0.125 in
- Weight: 1.9 Grams (Approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- ESD Rating: Human Body Model 3B Machine Model C



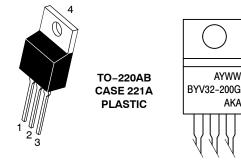
ON Semiconductor®

http://onsemi.com

ULTRAFAST RECTIFIER 16 AMPERES, 200 VOLTS t_{rr} = 35 ns



MARKING DIAGRAM



А	= Assembly Location
Y	= Year
WW	= Work Week
BYV32-200	= Device Code
G	= Pb-Free Package
AKA	= Diode Polarity

ORDERING INFORMATION

Device	Package	Shipping
BYV32-200	TO-220	50 Units / Rail
BYV32-200G	TO-220 (Pb-Free)	50 Units / Rail

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

Semiconductor Components Industries, LLC, 2008
May, 2008 - Rev. 4

查钩inghy/527的99D"供应商

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
Average Rectified Forward Current, T _C = 156°C Per Leg Total Device	IF(AV)	8.0 16	A
Peak Rectified Forward Current (Square Wave, 20 kHz), $T_C = 154^{\circ}C$ – Per Diode Leg	I _{FM}	16	A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	I _{FSM}	100	A
Operating Junction Temperature and Storage Temperature	T _J , T _{stg}	-65 to +175	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

THERMAL CHARACTERISTICS

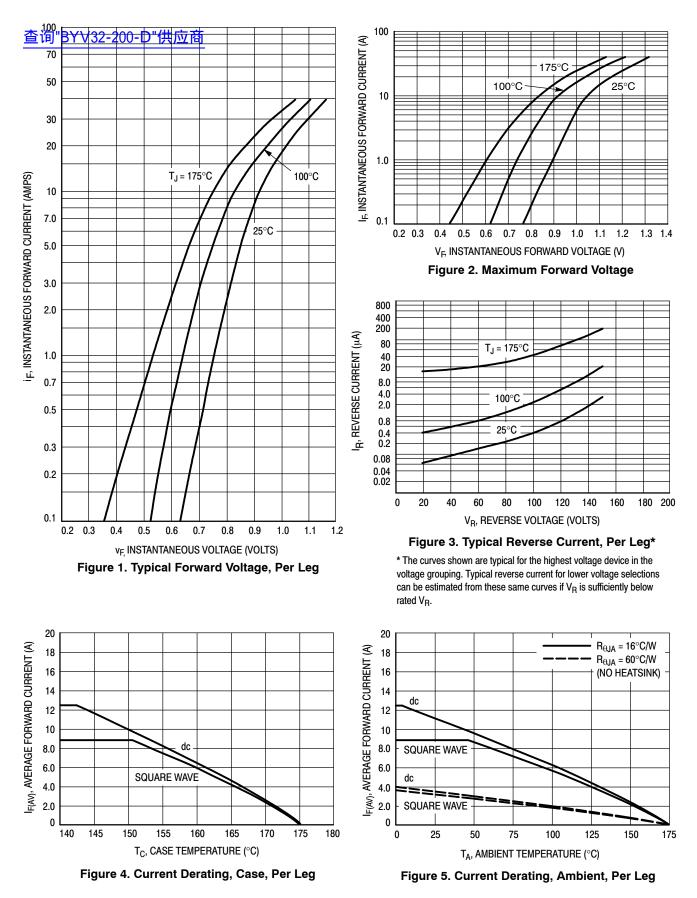
Characteristic	Conditions	Symbol	Value	Unit
Maximum Thermal Resistance, Junction-to-Case	Min. Pad	$R_{\theta JC}$	3.0	°C/W
Maximum Thermal Resistance, Junction-to-Ambient	Min. Pad	$R_{\theta JA}$	60	

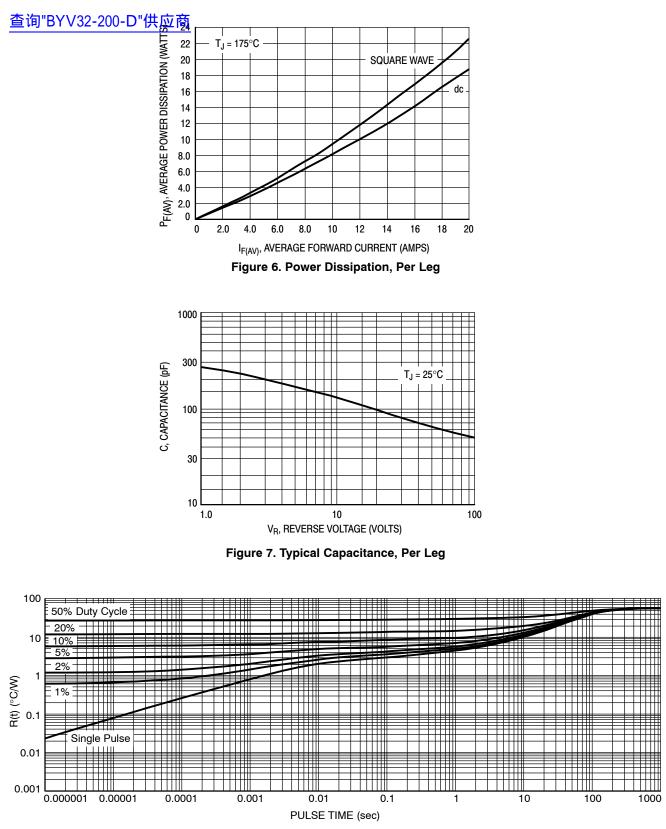
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min	Typical	Max	Unit
Instantaneous Forward Voltage (Note 1) (i _F = 5.0 A, T _j = 100°C) (i _F = 20 A, T _j = 25°C)	v _F		0.74 1.01	0.85 1.15	V
Instantaneous Reverse Current (Note 1) (Rated dc Voltage, $T_j = 100^{\circ}C$) (Rated dc Voltage, $T_j = 25^{\circ}C$)	i _R		21 3.5	600 50	μΑ
Maximum Reverse Recovery Time (I _F = 1.0 A, di/dt = 50 A/ μ s) (I _F = 0.5 A, I _R = 1.0 A, I _{REC} = 0.25 A)	t _{rr}			35 25	ns

1. Pulse Test: Pulse Width = 300 s, Duty Cycle \leq 2.0%

BYV32-200

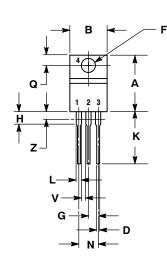


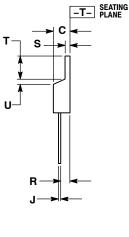




查询"BYV32-200-D"供应商

TO-220 CASE 221A-09 ISSUE AF





DIMENSIONING AND TOLERANCING PER ANSI
Y14.5M, 1982.
CONTROLLING DIMENSION: INCH.

NOTES

1.

2

 DIMENSION Z DEFINES A ZONE WHERE ALL BODY AND LEAD IRREGULARITIES ARE ALLOWED.

	INC	HES	MILLIMETER	
DIM	MIN	MAX	MIN	MAX
Α	0.570	0.620	14.48	15.75
В	0.380	0.405	9.66	10.28
С	0.160	0.190	4.07	4.82
D	0.025	0.035	0.64	0.88
F	0.142	0.161	3.61	4.09
G	0.095	0.105	2.42	2.66
Η	0.110	0.155	2.80	3.93
J	0.014	0.025	0.36	0.64
Κ	0.500	0.562	12.70	14.27
L	0.045	0.060	1.15	1.52
Ν	0.190	0.210	4.83	5.33
Q	0.100	0.120	2.54	3.04
R	0.080	0.110	2.04	2.79
S	0.045	0.055	1.15	1.39
Т	0.235	0.255	5.97	6.47
U	0.000	0.050	0.00	1.27
۷	0.045		1.15	
Ζ		0.080		2.04

PIN 1. ANODE 2. CATHODE 3. ANODE 4. CATHODE

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