

Ultrafast Recovery Rectifier

BYQ28ED-200

FEATURES

- Ultrafast Recovery Time
- · Low Forward Voltage
- · Low Leakage Current
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

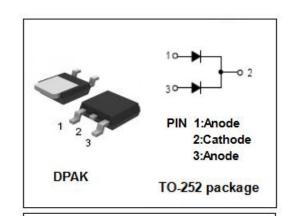


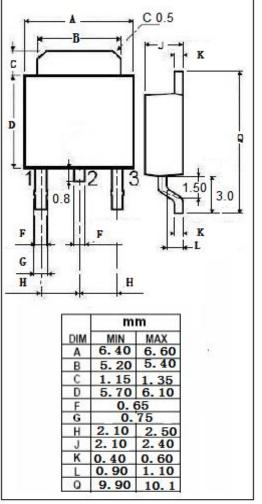
APPLICATIONS

• Output rectifiers in high-frequency switched-mode power supplies.



SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current Per Leg Total device	10	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	50	Α
P_{D}	Maximum power dissipation	42	W
TJ	Junction Temperature	-40~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-40~150	${\mathbb C}$





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.0	°C/W

ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 5A ;Tj=25°C I _F = 5A ;Tj=150°C I _F = 10A ;Tj=25°C	1.1 0.895 1.25	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 200V	10	μА
t _{rr}	Maximum Reverse Recovery Time	I _F = 1A	25	ns



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