

Fast Recovery Rectifier

BYT08P-400

FEATURES

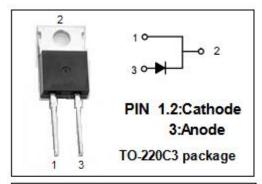
- Ultrafast with soft recovery
- · Operating temperature
- · Reverse voltage
- · Avalanche energy rated
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

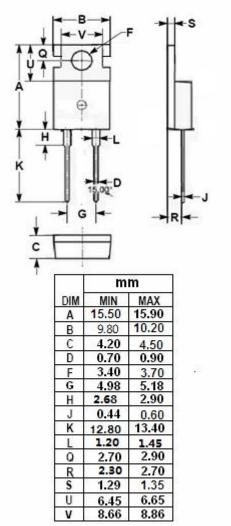
APPLICATIONS

- Switching power supply
- · Power switching circuits
- · General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current	8	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	100	Α
P _D	Maximum power dissipation	50	W
TJ	Junction Temperature	-40~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$







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THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _{F*}	Maximum Instantaneous Forward Voltage	I _F =8A ;Tj=25°C	1.5	V
		I _F = 8A ;Tj=100°C	1.4	
lr	Maximum Instantaneous Reverse Current	V _R = V _{RWM}	15	μ Α
		V _R = V _{RWM} ;Tj=100°C	2.5	mA
t _{rr}	Maximum Reverse Recovery Time	I _F =1A;di/dt = 50A/μs	75	ns

^{*:}Pulse test ,Pulse width=300us,duty cycle≤2%

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