

Ultrafast Rectifier

FESF16JT

FEATURES

- · Ultrafast recovery time
- Power pack
- · Glass passivated pellet chip junction
- · Low switching losses
- High efficiency
- · High forward surge capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

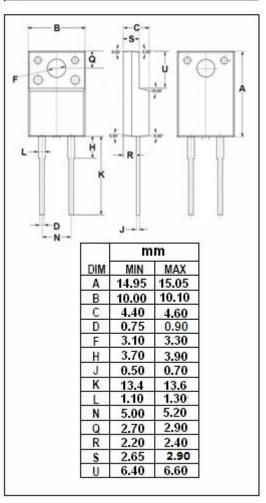
PIN 1 O PIN 2 O TO-220F Package 1 2

APPLICATIONS

 For sue in high frequency rectifier of switching mode power supplies,inverters,freewheeling diodes,DC/DC converters and other power switching applications



SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current	16	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	250	А
P _D	Maximum power dissipation	75	W
TJ	Junction Temperature	-65~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$





Fast Recovery Rectifier

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.7	°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 =16A ;Tj=25°C	1.5	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tj=100°C V _R = V _{RWM}	500 10	μА
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A;I _R =1.0A;Irr =0.25A;	50	ns

^{*:}Pulse test ,Pulse width=300us,duty cycle≤1%



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