

## FES16JT

### 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

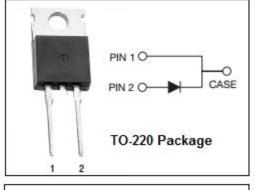
### **APPLICATIONS**

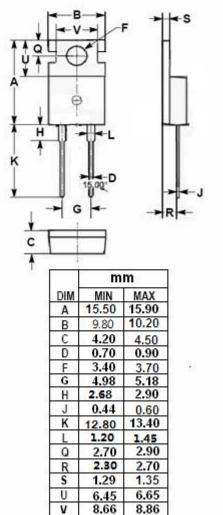
 For sue in high frequency rectifier of switching mode power supplies,inverters,freewheeling diodes,DC/DC converters and other power switching applications

### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	16	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	250	A
P <sub>D</sub>	Maximum power dissipation 1		W
TJ	Junction Temperature	-65~150	Ĉ
T <sub>stg</sub>	Storage Temperature Range -65~150		°C

1





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## **Fast Recovery Rectifier**

# FES16JT

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case		°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F*</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> =16A ;Tj=25 ℃	1.5	V
IR	Maximum Instantaneous Reverse Current	V <sub>R</sub> = V <sub>RWM:</sub> Tj=100°C V <sub>R</sub> = V <sub>RWM</sub>	500 10	μA
trr	Maximum Reverse Recovery Time	I <sub>F</sub> =0.5A;I <sub>R</sub> =1.0A;Irr =0.25A;	50	ns

\*:Pulse test ,Pulse width=300us,duty cycle≤1%

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