

Ultra fast Rectifier

FESB16GT

FEATURES

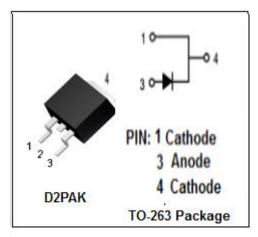
- With TO-263(DPAK) packaging
- · Low forward voltage drop
- · Super high speed switching
- · High reliability by planer design
- · High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

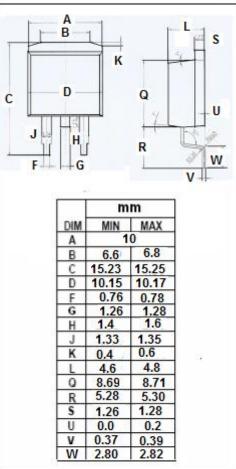
APPLICATIONS

- Switching power supply
- · Power switching circuits
- · High speed power switching

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
IF(AV)	Average Rectified Forward Current @Tc=100°C;Square Wave; Duty=1/2	16	А
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	250	А
TJ	Junction Temperature	-65~150	$^{\circ}$
Tstg	Storage Temperature Range	-65~150	${\mathbb C}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case		°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 =16A ;Tc=25℃	1.3	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} Tc=25°C V _R = V _{RWM} Tc=150°C	0.01 0.5	mA
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A;I _R =1A; Irr=0.25A	50	ns

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