

Fast Recovery Rectifier

HFA16TB120

FEATURES

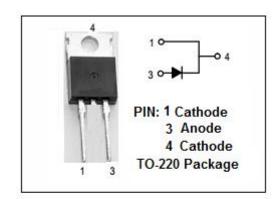
- 1200V blocking voltage
- Ultrafast recovery
- Ultrasoft recovery
- Very low IRRM
- · Very low Qrr
- · Specified at operating conditions
- Designed and qualified for industrial level
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

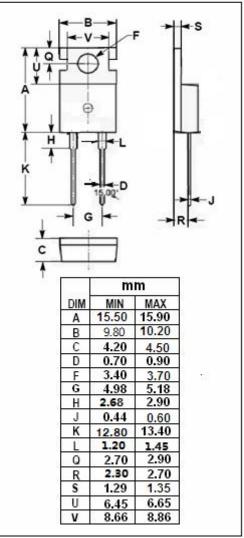


• Be suited for applications in power supplies and power conversion systems (such as inverters), motor drives, and many other similar applications where high speed, high efficiency is needed.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	1200	V
I _{F(AV)}	Average Rectified Forward Current @Tc=100°C	16	А
I _{FSM}	Single pulse forward current Maximum repetitive forward current	190 64	Α
Тл	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.83	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =16A;Tj=25°C I _F =16A;Tj=125°C I _F =32A;Tj=25°C	3.0 2.7 3.93	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{Rrated} V _R = 08 x V _{Rrated} Tj=125°C	20 2000	μ Α
t _{rr}	Maximum Reverse Recovery Time	IF =16A;di/dt = 200A/μs;V _R =200V;	135	ns

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