

Ultra fast Rectifier

FMD-4206S

FEATURES

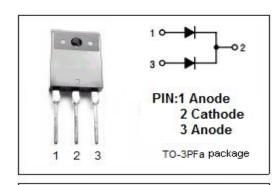
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

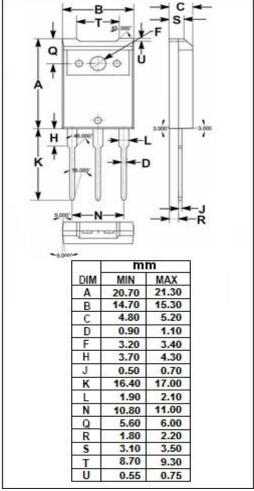


APPLICATIONS

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

SYMBO L	PARAMETER	VALUE	UNI T
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage tw=500ns;duty=1/40	400	V
IF(AV)	Average Rectified Forward Current @Tc=100℃	20	А
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions;One shot	100	А
TJ	Junction Temperature -40~15		$^{\circ}$
Tstg	Storage Temperature Range	-40~15 0	$^{\circ}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =10A	1.4	V
IR	Maximum Instantaneous Reverse Current	VR= V _{RWM} ;	20	μА
t _{rr}	Maximum Reverse Recovery Time	IF =0.5A;90% Recovery point	30	ns

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