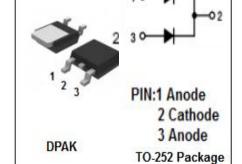


Ultra fast Rectifier

RFN6BM2D

FEATURES

- With TO-252(DPAK) packaging
- · High junction temperature capability
- · Low forward voltage, high current capability
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



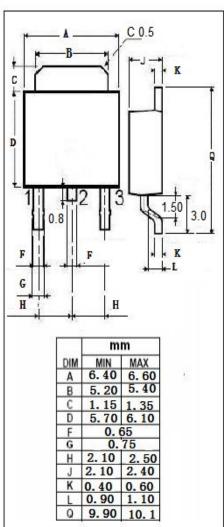
APPLICATIONS

- Switching power supply
- · Free-Wheeling diodes
- · Reverse battery protection
- Center tap configuration



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
VRRM VRMS VR	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current @Tc=106℃	6	Α
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	40	Α
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$



Ultra fast Rectifier

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	6.0	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F =3A	0.98	V
I _R	Maximum Instantaneous Reverse Current	V_R = rated V_{RRM} ;	10	μ A
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A;I _R =1A;Irr=0.75A	25	ns

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