

Schottky Barrier Rectifier

MBRF1060

FEATURES

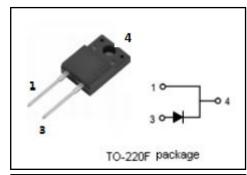
- Low Forward Voltage
- · High Operating Junction Temperature
- Extremely low reverse leakage
- Optimized VF vs. IR trade off for high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

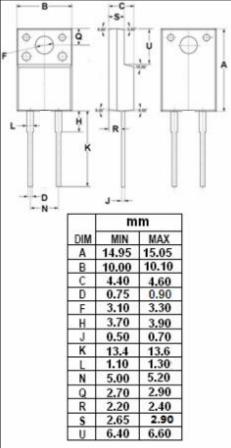
APPLICATIONS

- · High frequency switching
- High efficiency SMPS
- Automotive

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	60	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 135 [°] C	10	А
I _{FSM}	Non-repetitive Peak Surge Current (8.3ms single half-wave)	150	А
TJ	Junction Temperature	-65~175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$
dv/dt	Voltage Rate of Change (Rated V _R)	10000	V/μs





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	4	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300us, Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A; T _C = 25°C I _F = 10A; T _C = 125°C I _F = 20A; T _C = 25°C I _F = 20A; T _C = 125°C	0.8 0.7 0.95 0.85	V
I _R	Maximum Instantaneous Reverse Current	V_R =60V, T_C = 25°C V_R =60V, T_C = 125°C	0.1 15	mA



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