

Schottky Barrier Rectifier

RB298NS100

FEATURES

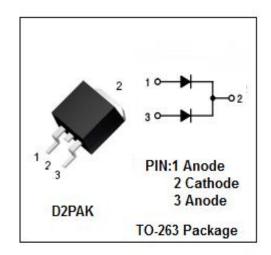
- With TO-263(D2PAK) packaging
- · Low leakage current, low power loss, high efficiency
- · High frequency operation
- High current capability
- Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

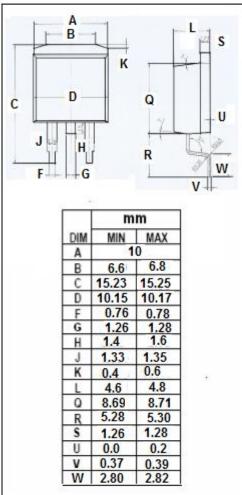


- Switching power supply
- · High frequency inverters
- Freewheeling diodes
- · Reverse battery protection
- · Polarity protection applications



SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	100	V
I _{F(AV)}	Average Rectified Forward Current @Tc=130℃	30	Α
I _{F(RMS)}	Forward rms current	60	Α
IFSM	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	100	Α
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C





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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case		°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 = 15A	0.87	V
I _R	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ; Tc= 25°C	10	mA



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