

Schottky Barrier Rectifier

RB238NS100

FEATURES

- Plastic material used carriers Underwriter Laboratory
- Metal silicon junction, majority carrier conduction
- Low Power Loss, high Efficiency
- · Guard ring for overvoltage protection
- · High Surge Capability, High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

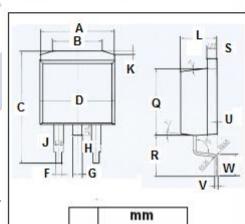
D2PAK 2 10 2 30 1 Anode 2 Cathode 3. Anode T0-263 Package

APPLICATIONS

• For use in low voltage, high frequency inverters, free wheeling and polarity protection applications.

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	100	V
I _{F(AV)}	Average Rectified Forward Current	40	А
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	100	А
T _J	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$



	mm	
DIM	MIN	MAX
Α	10	
В	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28 1.6
Н	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
0	8.69	8.71
R	5.28	5.30
R	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.0	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 20A ; Tc= 25℃	0.86	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; Tc= 25 °C	20	uA



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