

Schottky Barrier Rectifier

SR10150

FEATURES

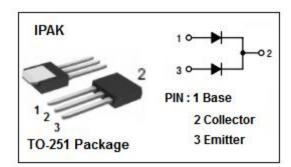
- Metal silicon junction, majority carrier conduction
- · Low Power Loss/High Efficiency
- High current capability, low forward voltage drop
- High surge capability
- · Guardring for overvoltage protection
- · High temperature soldering guaranteed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

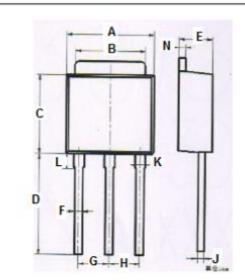
APPLICATIONS

• Designed 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	150	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 125 [°] C	10	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	175	А
Тл	Junction Temperature	-55~125	${\mathbb C}$
T _{stg}	Storage Temperature Range	-55~150	°C





	mm	
DIM	MIN	MAX
Α	6.40	6.48
В	5.10	5.50
C	5.80	6.20
D	9.20	9.60
E	2.20	2.40
F	0.50	0.70
G	2.09	2.49
Н	2.09	2.49
J	0.40	0.60
K	0.70	0.90
L	1.60	2.00
N	0.40	0.60



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.5	°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 = 5A ; T _C = 25 ℃	0.88	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25°C	0.1	mA

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