

INCHANGE SEMICONDUCTOR

Schottky Barrier Rectifier

S20SC4M



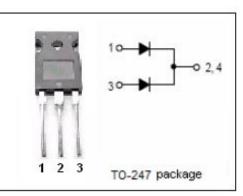
- With TO-247 packaging
- · Low leakage current, low power loss, high efficiency
- High frequency operation
- High surge capability
- · Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

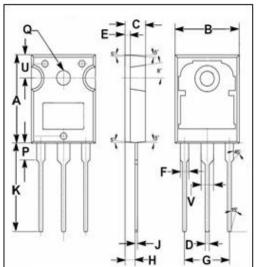
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} VR	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	40	V
I _{F(AV)}	Average Rectified Forward Current@Tc=150°C	20	A
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions) tp=10ms	170	А
TJ	Junction Temperature	-40~150	°C
T _{stg}	Storage Temperature Range	-40~150	°C





	mm		
DIM	MIN	MAX	
Α	19.80	20.20	
В	15.40	15.80	
С	4.90	5.10	
D	0.90	1.10	
E	1.40	1.60	
F	1.90	2.10	
G	10.80	11.00	
H	2.40	2.60	
J	0.50	0.70	
K	19.50	20.50	
Ρ	3.90	4.10	
Q	3.30	3.50	
U	5.20	5.40	
V	2.90	3.10	

isc website: <u>www.iscsemi.com</u>

¹ isc & iscsemi is registered trademark

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	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	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	IF=10	0.59	V
IR	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM}	5	mA

NOTICE:

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