

# **Schottky Barrier Rectifier**

## **S60SC4M**

### **FEATURES**

- 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

# 10 0 2,4 30 TO-247 package

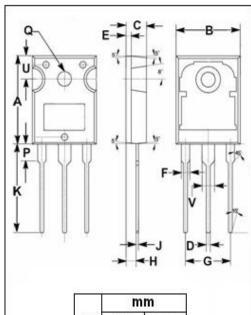
## **APPLICATIONS**

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



## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
VRRM VRMS VR	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	40	V
I <sub>F(AV)</sub>	Average Rectified Forward Current@Tc=150℃	60	Α
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions) tp=10ms	500	Α
TJ	Junction Temperature	-40~150	$^{\circ}\! \mathbb{C}$
T <sub>stg</sub>	Storage Temperature Range	-40~150	$^{\circ}$ C



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

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S60SC4M

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case		°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 <sub>F</sub> =30	0.55	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = rated V <sub>RRM</sub>	25	mA

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