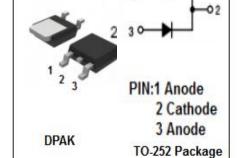


# **Schottky Barrier Rectifier**

## SBR6100CTL

### **FEATURES**

- With TO-252(DPAK) packaging
- · Low power loss
- · High efficiency
- · High frequency operation
- · High surge capacity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



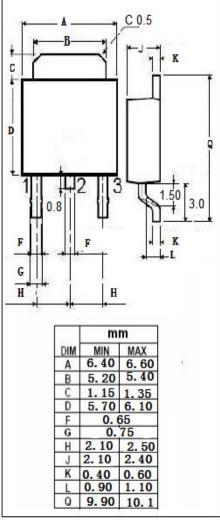
### **APPLICATIONS**

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



### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
V <sub>RRM</sub> V <sub>RMS</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @Tc=115℃	6	Α
I <sub>F(RMS)</sub>	Forward rms current@Tc=135°C	12	Α
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	78	А
TJ	Junction Temperature	-65~150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-65~150	$^{\circ}$



## **Schottky Barrier Rectifier**

SBR6100CTL

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	1.6	°C/W

### **ELECTRICAL CHARACTERISTICS** (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 3A ;Tc= 25 ℃	0.74	· V
		I <sub>F</sub> = 3A ;Tc= 125℃	0.62	
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = rated V <sub>RRM</sub> ; Tc= 25°C	0.2	- mA
		V <sub>R</sub> = rated V <sub>RRM</sub> ; Tc= 125 ℃	15	

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