

# Schottky Barrier Rectifier

# SBR15U100CTL

### FEATURES

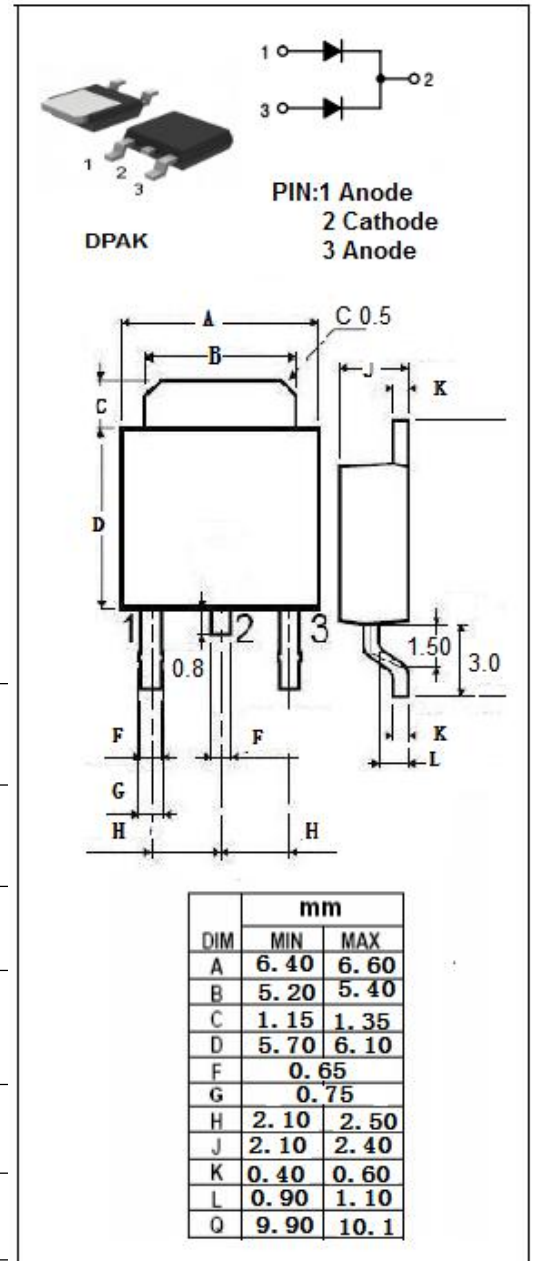
- Schottky Barrier Chip
- Low Forward Voltage Drop
- Low Power Loss/High Efficiency
- Fast switching Capability
- High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Designed for low-voltage,high frequency inverters,free wheeling and polarity protection applications

### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	15	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 8.3ms single Half Sine-Wave Superimposed on Rated Load	100	A
T <sub>J</sub>	Junction Temperature	-65~175	°C
T <sub>stg</sub>	Storage Temperature Range	-65~175	°C



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**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	1.5	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 7.5A ; T <sub>C</sub> = 25°C	0.8	V
		I <sub>F</sub> = 7.5A ; T <sub>C</sub> = 125°C	0.71	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	Rated DC Voltage, T <sub>C</sub> = 25°C	80	μA
		Rated DC Voltage, T <sub>C</sub> = 125°C	10	mA

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