

# **Schottky Barrier Rectifier**

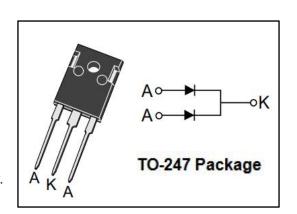
# **STPS6045CW**

#### **FEATURES**

- Multilayer Metal -Silicon Potential Structure.
- · Beautiful High Temperature Character.
- Have Over Voltage protect loop, high reliability.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## **MECHANICAL CHARACTERISTICS**

- · Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Invers Circuit.
- Low Voltage Continued Circuit and Protection Circuit.



## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RMS</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	45	V
I <sub>F(AV)</sub>	Average Rectified Forward Current (Per Leg) (Total)	30 60	А
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	400	А
dvdt	Maximum Rate of Voltage Change	10000	V/uS
TJ	Junction Temperature	-65~175	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-65~175	$^{\circ}$

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	0.95	°C/W

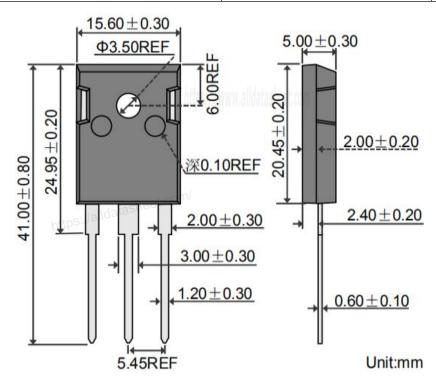


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**ELECTRICAL CHARACTERISTICS**(Pulse Test: Pulse Width≤300 μ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 60A ; T <sub>C</sub> = 25℃	0.84	V
IR	Maximum Instantaneous Reverse Current	Rated DC Voltage, T <sub>C</sub> = 25 °C	0.5	mA



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