

Schottky Barrier Rectifier

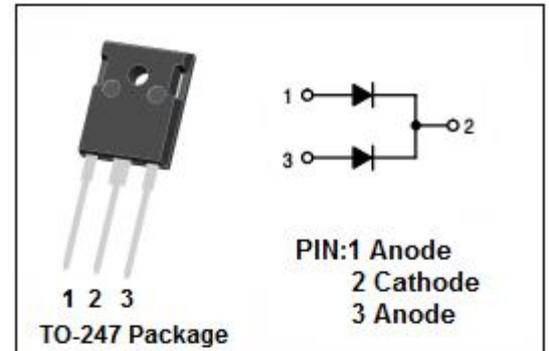
STPS61150CW

FEATURES

- Low leakage current
- High frequency operation
- Have over voltage protect loop, high reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

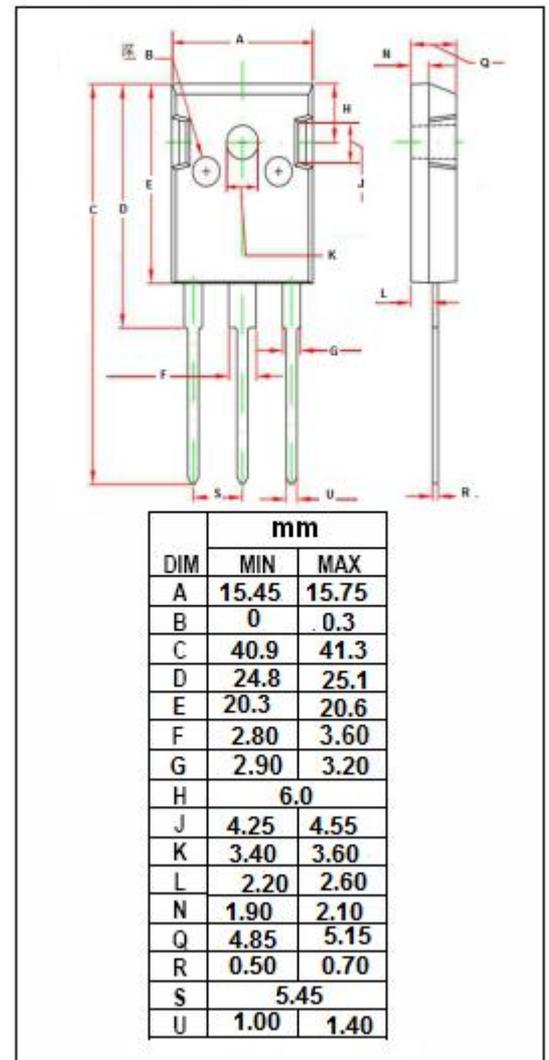
APPLICATIONS

- Low voltage high frequency switching power supply
- Low voltage high frequency inverter circuit
- Low voltage continued circuit and protection circuit



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	150	V
I _{F(AV)}	Average Rectified Forward Current	60	A
I _{FSM}	Non-repetitive Peak Surge Current	500	A
I _{RSM}	Peak Repetitive Reverse Surge Current (2 μs, 1.0kHz)	0.5	A
T _J	Max.Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-40~150	°C
dv/dt	Voltage Rate of Change (Rated V _R)	1,0000	V/ μs



Schottky Barrier Rectifier**STPS61150CW****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.6	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Forward Voltage Drop	I _F = 30A ; T _c = 25°C	0.84	V
		I _F = 30A ; T _c = 125°C	0.67	
		I _F = 60A ; T _c = 25°C	0.92	
		I _F = 60A ; T _c = 125°C	0.8	
I _R	Reverse Leakage Current	V _R = V _{RWM} ; T _c = 25°C	0.02	mA
		V _R = V _{RWM} ; T _c = 125°C	25	

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