

Schottky Barrier Rectifier

STPS30150CW

FEATURES

- With TO-247 packaging
- · High Junction Temperature Capability
- · Low forward voltage, high current capability
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

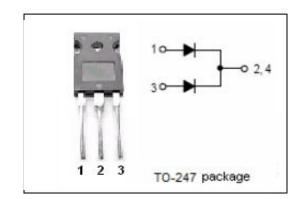


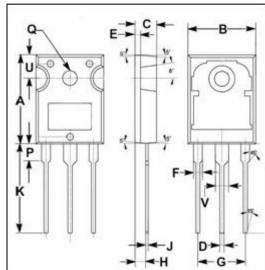
APPLICATIONS

- Switching power supply
- · Free-Wheeling diodes
- · Reverse battery protection
- Center tap configuration



SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	150	V
I _{F(AV)}	Average Rectified Forward Current @Tc=110℃	15	Α
IFSM	RMS Forward Current	30	Α
IFSM	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	220	Α
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~175	$^{\circ}$





	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	
P	3.90	4.10	
Q	3.30	3.50	
U	5.20	5.40	
V	2.90	3.10	



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	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 _F = 15A ;Tc= 25 °C I _F = 15A ;Tc= 125 °C I _F = 30A ;Tc= 25 °C I _F = 30A ;Tc= 125 °C	0.92 0.75 1.00 0.86	٧
I _R	Maximum Instantaneous Reverse Current	V_R = rated V_{RRM} ; Tj= 25 $^{\circ}$ C V_R = rated V_{RRM} ; Tj= 125 $^{\circ}$ C	6.8 8.0	μ A mA

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