

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

STPS20L45CG

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FEATURES

- Dual Rectifier Conduction, Positive Center Tap
- Low Power Loss/High Efficiency
- · High Current Capability, Low Forward Voltage Drop
- · High Surge Capacity
- · Guarding for Overvoltage protection
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



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APPLICATIONS

• Designed for AC/DC switching adaptor and other switching power supply applications .

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	repetitive reverse blocking voltage	45	V
lF	forward voltage drop	20	A
IFSM	Following any rated load condition and with rated.VAAM applied 5 μs sine or 3 $~\mu$ s rect. pulse	180	A
TJ	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~150	°C



	IVIIIN	IVIAA
Α	9.8	10.2
В	6.6	6.8
С	15.1	15.3
D	9.6	10
F	0.7	0.9
G	1.26	1.3
Н	1.2	1.45
L	4.4	4.6
Q	9.2	9.3
S	1.25	1.35
V	0.4	0.6
W	2.6	2.8

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THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I⊧= 10A ; Tc= 25℃ I⊧= 20A ; Tc= 25℃	0.55 0.73	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25° C	0.2	mA

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