















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

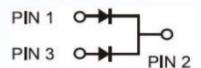
Domestic Part Number	STPS61L45CW
Overseas Part Number	STPS61L45CW
▶ Equivalent Part Number	STPS61L45CW





SCHOTTKY BARRIER RECTIFIER





Primary Characteristic

l _o	2*30A
V_{RRM}	45V
I _{FSM}	450A
V_{F}	0.56V
T₃max	150℃
Assembly code	BY

FEATURES

- Low forward voltage
- · High current capability
- High forward surge capability
- · Low power losses, High efficiency
- · Guarding for over voltage protection

APPLICATIONS

Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

MECHANICAL DATA

Case: Molded plastic
Polarity: As marked

• Mounting Position: Any

Molded Plastic: UL Flammability Classification Rating 94V-0
Lead free in compliance with EU RoHS 2011/65/EU directive

• Solder bath temperature 275 $^{\circ}$ C maximum,10s per JESD 22-B106

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Characteristics		Symbol	Value	Unit		
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	45	V		
Working Peak Reverse Voltage		V_{RWM}	45	V		
Maximum DC Blocking Voltage		V_{DC}	45	V		
Maximum Average Forward Rectified	Per Leg		30	^		
Current	Total	b	60	A		
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	450	A		
Operating Temperature Range		T _J	150	°C		
Storage Temperature Range		T _{STG}	-40 to +150	°C		
Typical Thermal Resistance (Note1)		R e Jc	2	°C/W		

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

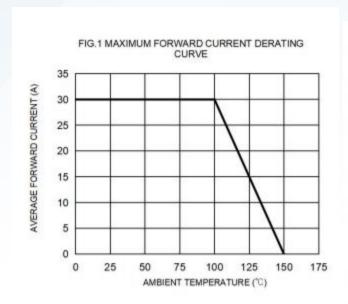
Characteristics	3	Symbol	V	alue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =30A	TA=25°C	V_{F}	0.56	0.61	V
	TA=125°C		0.51	-	1
Maximum Reverse Current at V _R =45V	TA=25°C		20	50	μA
	TA=125°C	I R	7	_	mA

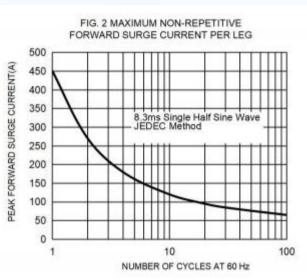
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

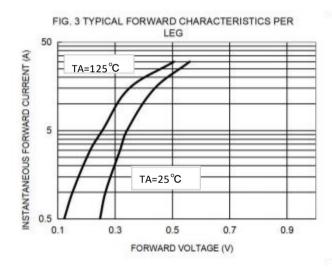
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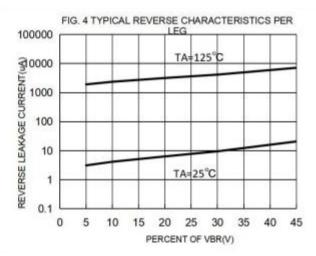


RATINGS AND CHARACTERISTIC CURVES







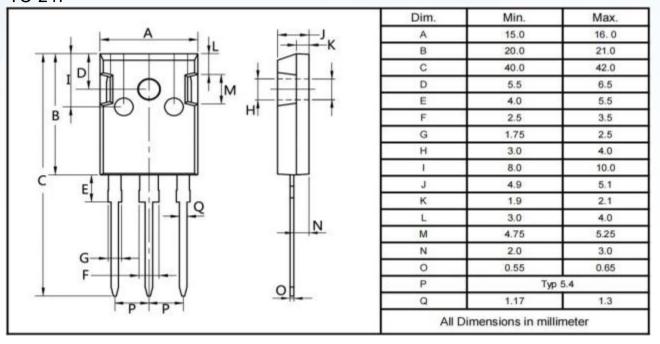


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Package Outline Dimensions millimeters

TO-247



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