

P10L60SP

PFC Device Corporation

10A 60V MOS Schottky Rectifier

Major ratings and characteristics

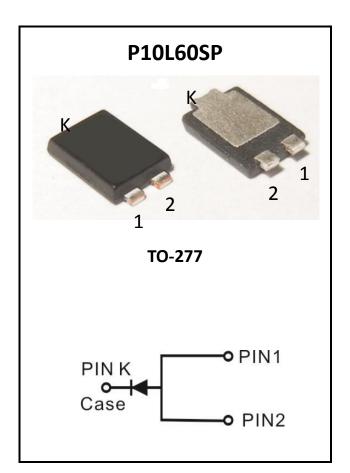
Characteristics	Values	Units	
I _{F(AV)} Rectangular	10	A	
Waveform	10		
V _{RRM}	60	V	
V _F @ 10A , Tj=125 °C	0.54	V, typ.	
T _J Operating Junction	65 to 1150	°C	
Temperature	-65 to +150		

Features

- Low Forward Voltage Drop
- Reliable High Temperature Operation
- Softest, fast switching capability
- 150°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant
- Green Molding Compound (No Br, Sb)

Typical Applications

Device optimized for low forward voltage drop to maximize efficiency in Power Supply applications



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1. Characteristics

Maximum Ratings Characteristics	$(T_A = 25 °C unless otherwise specified)$
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Parameter	Symbol	Values	Units
DC Blocking Voltage	V _{RM}		
Working Peak Reverse Voltage	V _{RWM}	60	Volts
Peak Repetitive Reverse Voltage	V _{RRM}		
Average Rectified Forward Current	I	10	Amos
Per device	Ι _ο	10	Amps
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	160	Amps
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2	Amps
Typical Thermal Resistance			
Thermal Resistance junction to Ambient Note (1)	Rθ _{JA}	72	°C / W
Thermal Resistance junction to Ambient Note (2)	Rθ _{JA}	30	
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Operating Junction Temperature	Tj	- 65 to +150	°C
Storage Junction Temperature	T _{STG}	- 65 to +150	

Electrical Characteristics - (per leg)

($T_A = 25$ °C unless otherwise specified)

Parameter	Test Conditions		Symbol	Тур.	Max.	Units
Instantaneous	IF = 10 A	T _J = 25 ^o C	VF*		0.65	Volta
Forward Voltage	IF = 10 A	T _J = 125 °C	- VF**	0.54	0.60	Volts
Instantaneous	At V _{RM}	T _J = 25 °C	ID*		500	uA
Reverse Current		T _J = 125 ^o C	IR*		100	mA

* Pulse width < 300 uS, Duty cycle < 2%

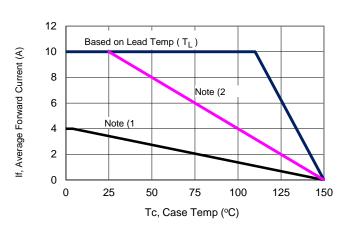
Note 1. FR-4 PCB, 2 oz Copper. Minimum recommended pad layout

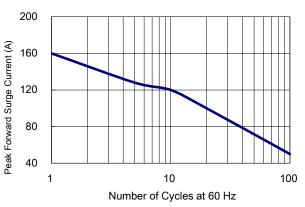
Note 2. Polyimide PCB, 2 oz Copper. Cathode pad dimensions 18.8x14.4mm , Anode pad dimensions- (5.6x14.4mm)



2. Characteristics Curves

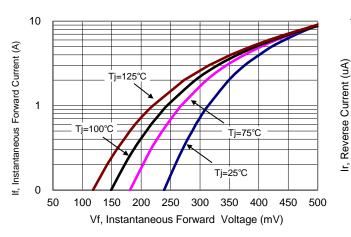
Ratings and Characteristics Curves



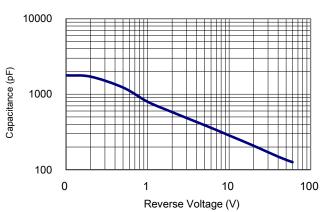


(TA = 25° C unless otherwise specified)













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Figure 2: Maximum Repetitive Surge Current

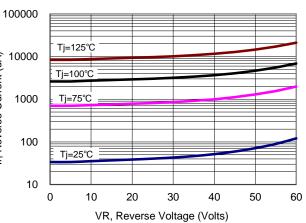
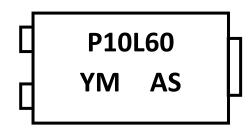


Figure 4: Typical Reverse Current

3. Marking information

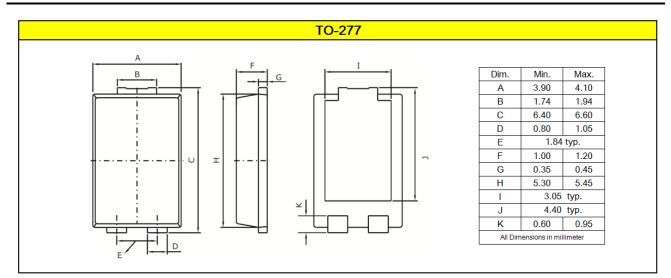
Top Marking Rule



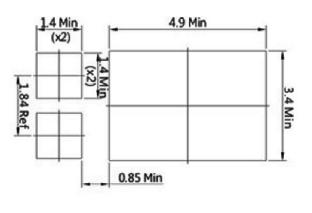
P10L60 = Product Type Marking Code YM = Date Code Y = Last one digits of year M = Month code A = Assembly Code S = Series Number

4. Package information

Suggested Package Outline Dimensions millimeters



Mounting pad Outline Dimensions millimeters

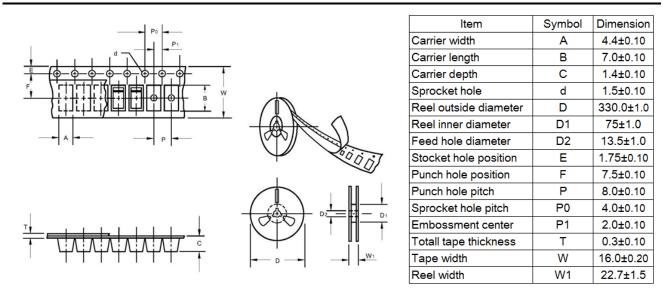




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5. Packing and Ordering information

Packing information millimeters



Ordering information

Part Number	Package	Base Quantity	Delivery mode
P10L60SP	TO-277	5000	13" diameter plastic tape and reel

Mechanical

- Molder Plastic: UL Flammability Classification Rating 94V-0
- Device Weight : 0.003 ounces (0.093grams) TO-277

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