

## PS860L

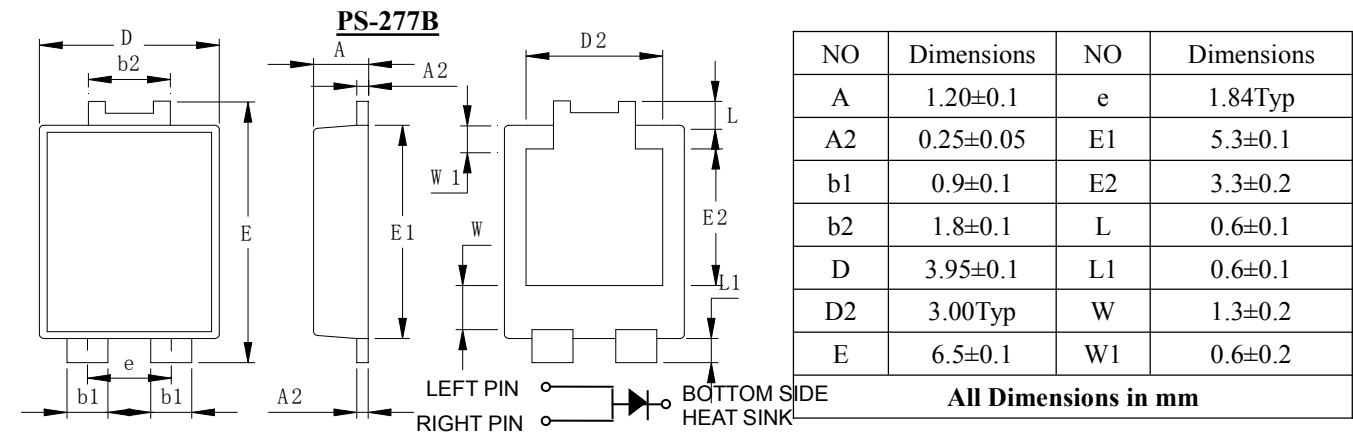
### 8.0AMPS. SCHOTTKY BARRIER RECTIFIERS

#### FEATURE

- . For surface mounted application
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge current capability
- . High temperature soldering guaranteed:  
260°C/10 seconds at terminals.

#### MECHANICAL DATA

- . Terminal: Solder plated
- . Case: Molded with UL-94 Class V-0 recognized  
Flame Retardant Epoxy (Halogen free)



Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

#### MAXIMUM RATINGS (T<sub>C</sub>=25°C unless otherwise noted)

Parameter	Symbol	PS860L	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	42	V
Maximum DC blocking Voltage	V <sub>DC</sub>	60	V
Average Forward Rectified Current at T <sub>L</sub> ≤ 100°C	I <sub>F(AV)</sub>	8	A
Non-repetitive forward surge current, 8.3ms Half sine-wave	I <sub>FSM</sub>	175	A
Typical Junction Capacitance (Note1)	C <sub>J</sub>	600	pF
Operation Junction Temperature and Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

#### ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Units
Instantaneous Forward voltage at 8A	V <sub>F</sub>	@T <sub>J</sub> =25°C	0.48	0.52	V
		@T <sub>J</sub> =125°C	0.38	-----	
reverse current at rated DC blocking voltage	I <sub>R</sub>	@T <sub>J</sub> =25°C	-----	0.2	mA
		@T <sub>J</sub> =125°C	-----	20.0	

#### THERMAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise noted)

Parameter	Symbol	PS860L	Units
Typical Thermal Resistance (Note2)	R <sub>(JA)</sub>	45	°C/W
	R <sub>(JC)</sub>	15	

#### Note:

1. T<sub>J</sub>=25°C, V<sub>R</sub> = 4V<sub>DC</sub>@1Mhz

2. Polyimide PCB, 2oz. Copper. Cathode pad dimensions 18.8\* 14.4\*1.6mm. Anode pad dimensions 5.6 x 14.4\*1.6mm.

RATING AND CHARACTERISTIC CURVES (PS860L)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

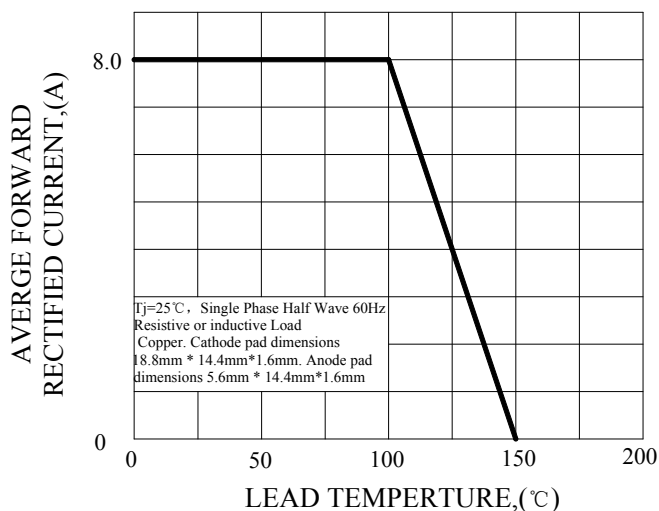


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

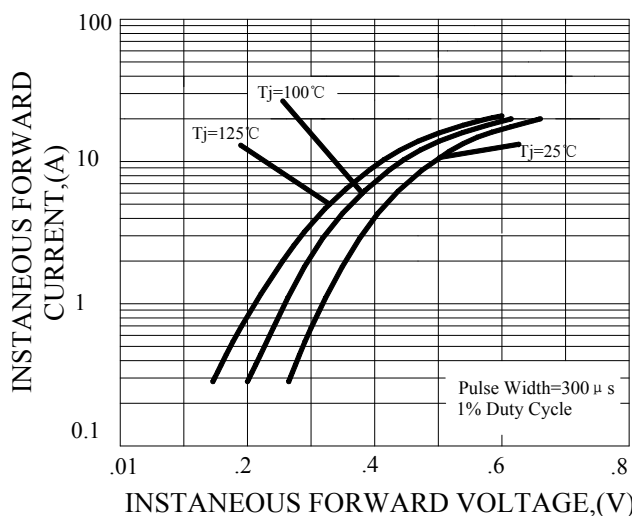


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

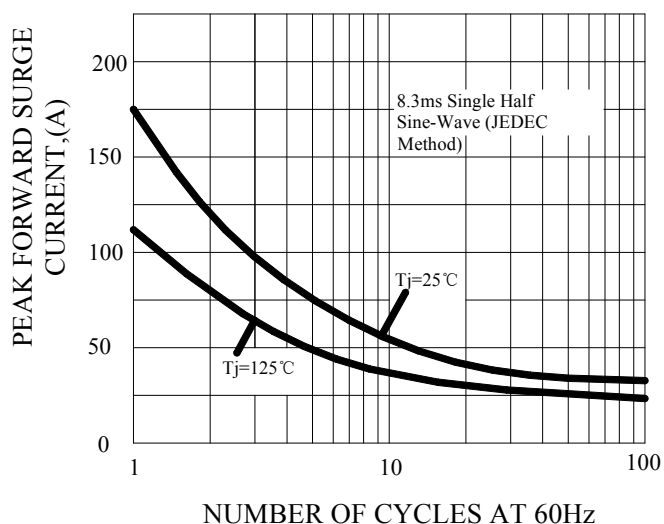


FIG.4-TYPICAL REVERSE CHARACTERISTICS

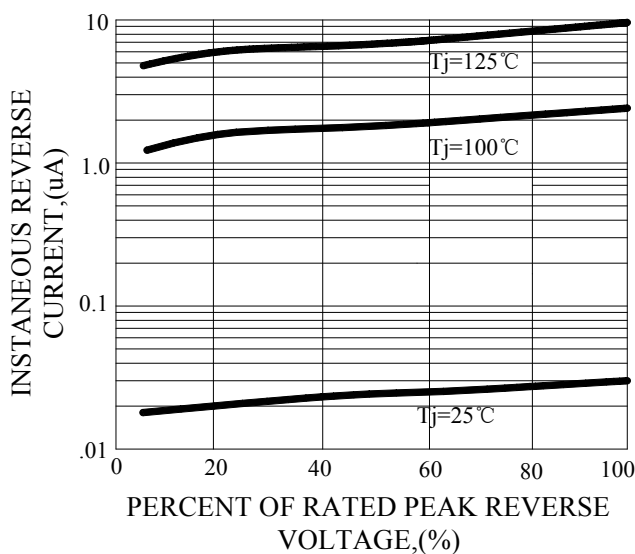
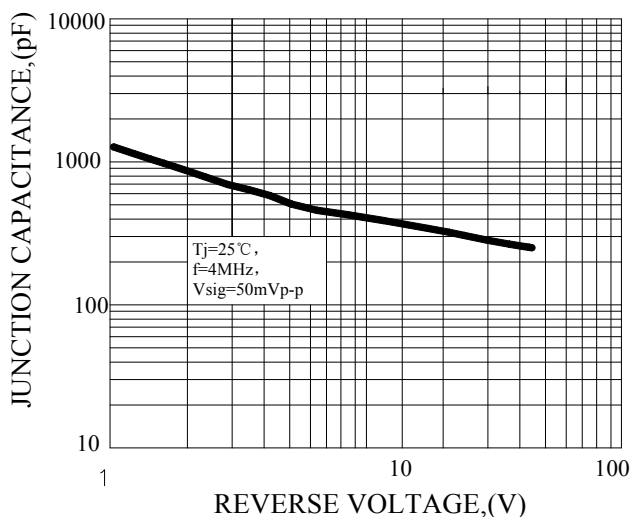
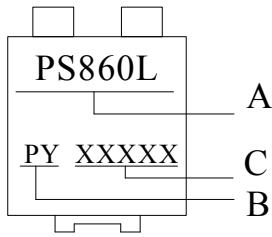


FIG.5-TYPICAL JUNCTION CAPACITANCE



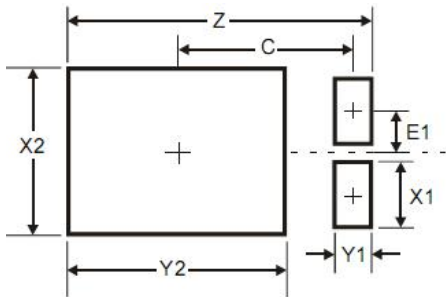
## Marking、 Pad Layout 、 MOQ and Packaging illustration

### 1、 Marking



SYMBOL	Explanation
<b>A</b>	<b>Product Name</b>
<b>B</b>	<b>Trademark</b>
<b>C</b>	<b>Date Code</b>

### 2、 Suggested Pad Layout

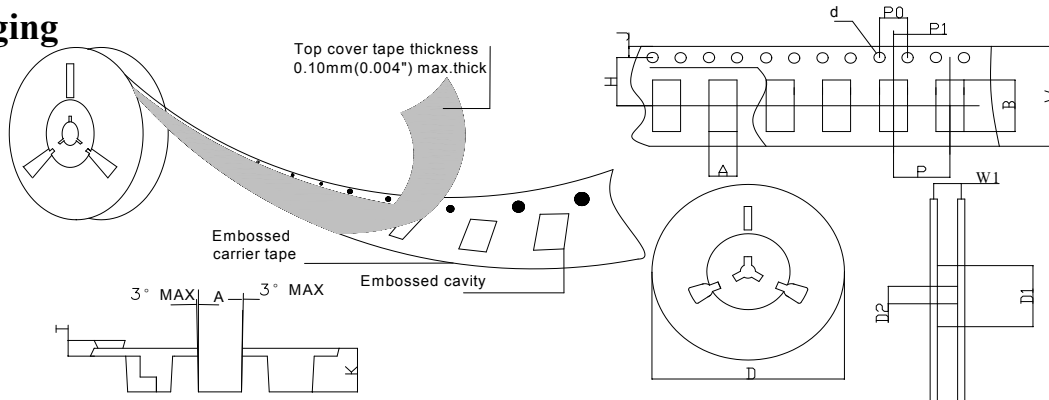


Dimensions	Value (in mm)
<b>Z</b>	<b>6.6</b>
<b>X1</b>	<b>1.4</b>
<b>X2</b>	<b>3.6</b>
<b>Y1</b>	<b>0.8</b>
<b>Y2</b>	<b>4.7</b>
<b>C</b>	<b>3.87</b>
<b>E1</b>	<b>0.9</b>

### 3、 MOQ

3000pcs / Tape & Reel

### 4、 Packaging



SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	PS-277B	ITEM	SYM BOL	PS-277B
Carrier width	A	4.45(0.175)Max	Carrier depth	K	1.60(0.063)Typ
Carrier length	B	7.0(0.276)Max	Punch hole pitch	P	8.00(0.315)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	74.0(2.913)Min	Overall tape thickness	T	0.25(0.010)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	16.0(0.630)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	16.5(0.650)Min
Punch hole position	H	7.50(0.295)Typ			

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [Pingwei](#) manufacturer:*

Other Similar products are found below :

[CUS06\(TE85L,Q,M\)](#) [MA4E2039](#) [D1FH3-5063](#) [MBR0530L-TP](#) [MBR10100CT-BP](#) [MBR30H100MFST1G](#) [MMBD301M3T5G](#) [PMAD1103-LF](#) [PMAD1108-LF](#) [RB160M-50TR](#) [RB520S-30](#) [RB551V-30](#) [DD350N18K](#) [DZ435N40K](#) [DZ600N16K](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#) [IDL02G65C5XUMA1](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#) [SBAT54CWT1G](#) [SBM30-03-TR-E](#) [SBS818-TL-E](#) [SK32A-LTP](#) [SK33A-TP](#) [SK34A-TP](#) [SK34B-TP](#) [SMD1200PL-TP](#) [ACDBN160-HF](#) [SS3003CH-TL-E](#) [STPS30S45CW](#) [PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM\)](#) [MBR1240MFST1G](#) [MBRB30H30CT-1G](#) [BAS28E6433HTMA1](#) [BAS 70-02L E6327](#) [HSB123JTR-E](#) [JANTX1N5712-1](#) [VS-STPS40L45CW-N3](#) [DD350N12K](#) [SB007-03C-TB-E](#) [SB10015M-TL-E](#) [SB1003M3-TL-E](#) [SK110-LTP](#)