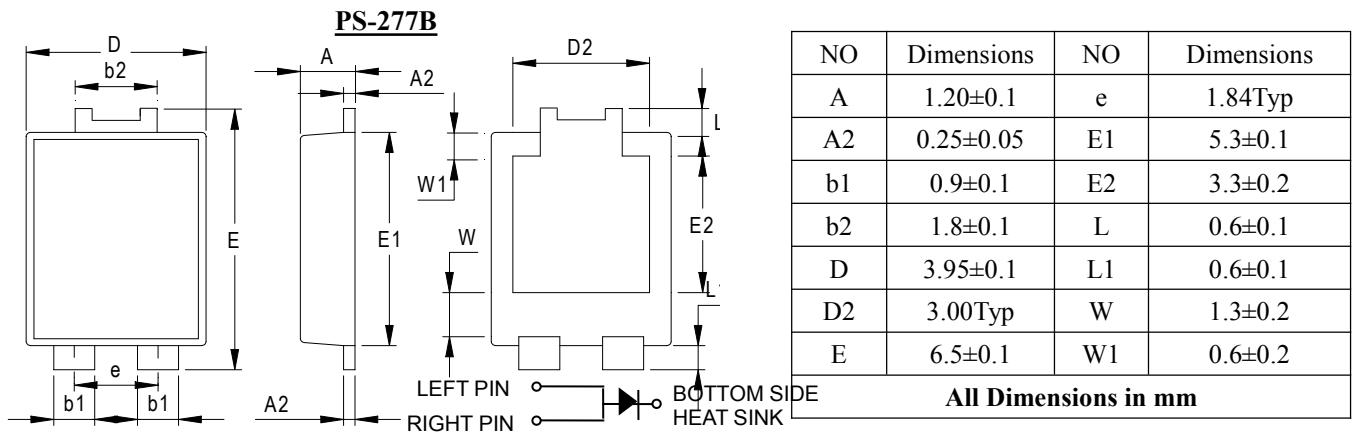


PS1045**10.0AMPS. SCHOTTKY BARRIER RECTIFIERS**

FEATURE	MECHANICAL DATA
<ul style="list-style-type: none"> . 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. 	<ul style="list-style-type: none"> . Terminal: Solder plated . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy (Halogen free) . Weight: 0.098 grams (approximate)



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

For capacitive load, derate current by 20%

MAXIMUM RATINGS (T _c =25°C unless otherwise noted)					
Parameter	SYMBOL	PS1045			Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	45			V
Maximum RMS Voltage	V_{RMS}	32			V
Maximum DC blocking Voltage	V_{DC}	45			V
Average Forward Rectified Current	$I_{F(AV)}$	10			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200			A
Typical Junction Capacitance (Note1)	C_J	900			pF
Storage Temperature	T_{STG}	-55 to + 150			°C
Operating Junction Temperature	T_J	-55 to + 150			°C

ELECTRICAL CHARACTERISTICS (T _c =25°C unless otherwise noted)					
Parameter	SYMBOL	Min	Typ	Max	Units
Reverse Breakdown Voltage at $I_r=0.5mA$	V_{BR}	45	----	----	V
Instantaneous Forward voltage at 10A	V_F	0.43	0.47	0.47	V
Instantaneous Forward voltage at 10A @ $T_J=25^\circ C$		----	0.43	0.47	
Instantaneous Forward voltage at 10A @ $T_J=125^\circ C$		----	0.38	0.41	
Instantaneous Forward voltage at 2A	V_F	0.32	0.36	0.36	V
Instantaneous Forward voltage at 2A @ $T_J=25^\circ C$		----	0.32	0.36	
Instantaneous Forward voltage at 2A @ $T_J=125^\circ C$		----	0.23	0.28	
Reverse current at rated DC blocking voltage	I_R	0.05	0.2	40.0	mA
Reverse current at rated DC blocking voltage @ $T_J=25^\circ C$		----	0.05	0.2	
Reverse current at rated DC blocking voltage @ $T_J=125^\circ C$		----	----	40.0	

THERMAL CHARACTERISTICS($T_c=25^\circ\text{C}$ unless otherwise noted)

Parameter	SYMBOL	PS1045	Units
Typical Thermal Resistance (Note2)	$R_{(JA)}$ $R_{(JC)}$	65 31	°C/W

Note:

- 1.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 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

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

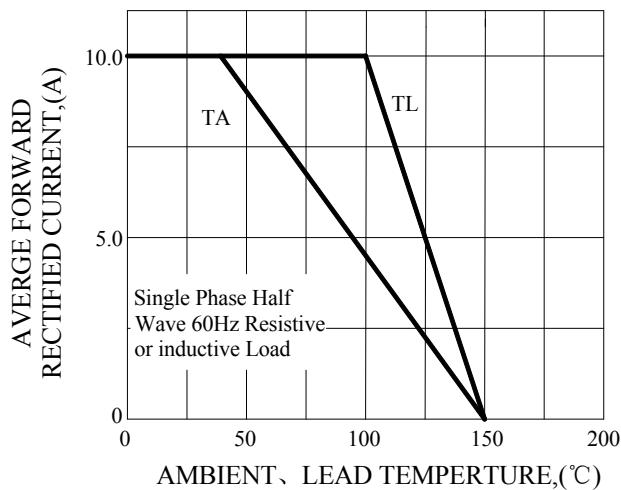


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

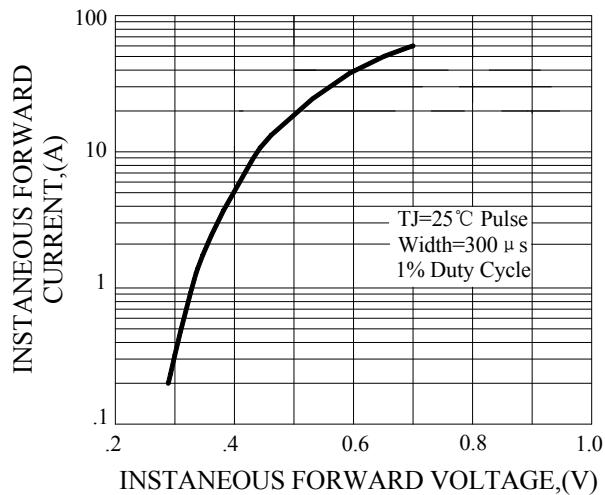


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

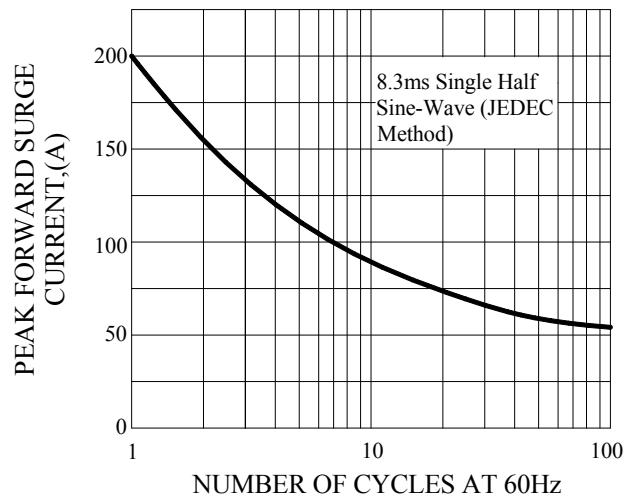


FIG.4-TYPICAL JUNCTION CAPACITANCE

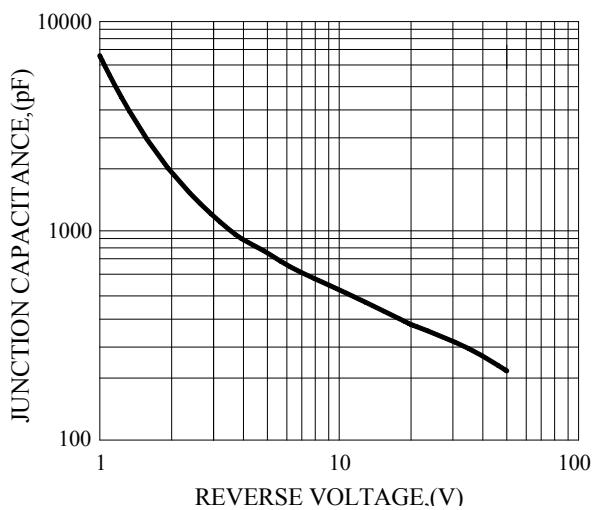
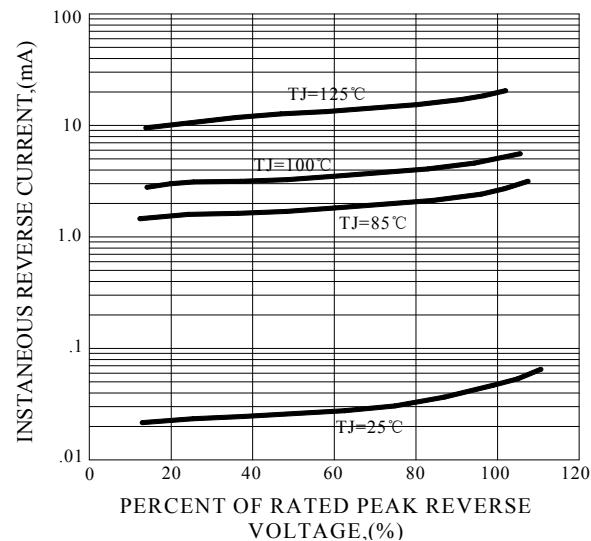
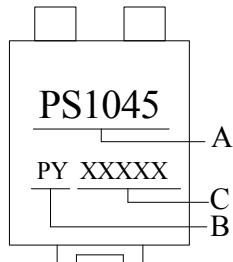


FIG.5-TYPICAL REVERSE CHARACTERISTICS



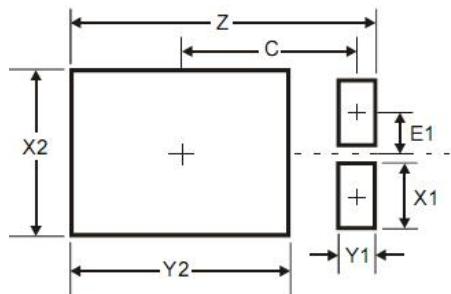
Marking、Pad Layout 、MOQ and Packaging illustration

1、Marking



SYMBOL	Explanation
A	Product Name
B	Trademark
C	Date Code

2、Suggested Pad Layout

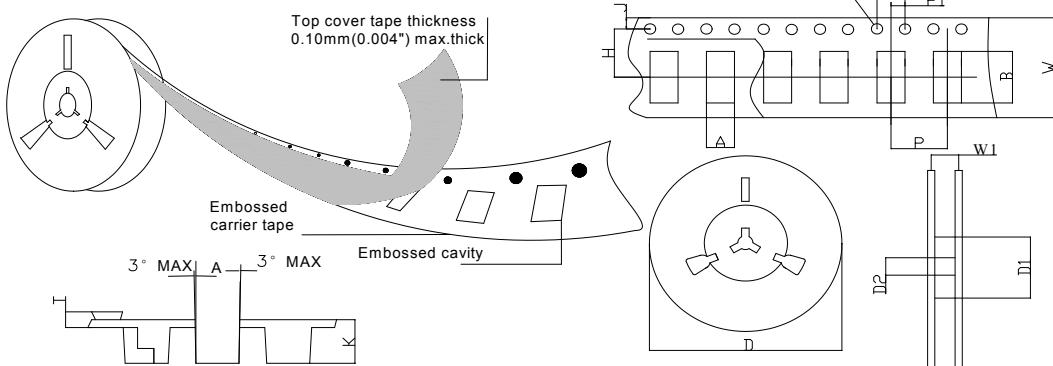


Dimensions	Value (in mm)
Z	6.6
X1	1.4
X2	3.6
Y1	0.8
Y2	4.7
C	3.87
E1	0.9

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			

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