



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 60 - 100 Volts CURRENT 8.0 Amperes

**SPL860PT
THRU
SPL8100PT**

PROVISIONAL SPEC.

Lead free devices

APPLICATION

- * DC to DC Converters
- * Switch- Mode Power Supplies
- * Notebook PC

FEATURE

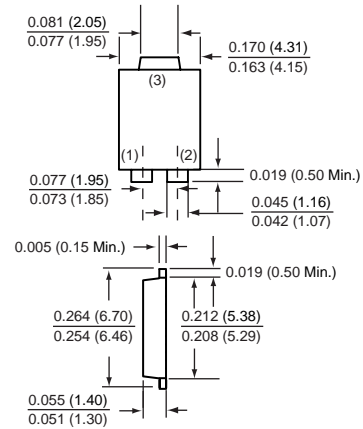
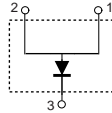
- * Small Surface Mounting Type. (SMP)
- * High speed ($T_{RR}=8.0\text{ns}$ TYP.)
- * Low Power Loss, High Efficiency
- * Low Forward Voltage Drop
- * Peak Forward Surge Current Is 100A.
- * Schottky Diode Array

WEIGHT

MARKING

SMP

CIRCUIT



SMP

MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	SPL860PT	SPL880PT	SPL8100PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	60	80	100	Volts
Maximum Average Forward Rectified Current at TL (SEE FIG.1)(Note 3)	I_O	8.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100			Amps
Typical Junction Capacitance (Note 2)	C_J	250			pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	15			$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150			$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	SPL860PT	SPL880PT	SPL8100PT	UNITS
Maximum Instantaneous Forward Voltage at 8.0 A DC (Note 1)	V_F	0.70	0.75	0.80	Volts
Maximum Average Reverse Current (Note 1) at Rated DC Blocking Voltage	@ $T_A = 25^\circ\text{C}$	0.5			mAmps
	@ $T_A = 100^\circ\text{C}$	20			mAmps

- NOTES : 1. Pulse test : 300 us pulse width, 1% duty cycle
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
 3. P.C.B. mounted 0.31 x 0.31" (8 x 8mm) copper pad areas

2004-7

RATING CHARACTERISTIC CURVES (SPL860PT THRU SPL8100PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

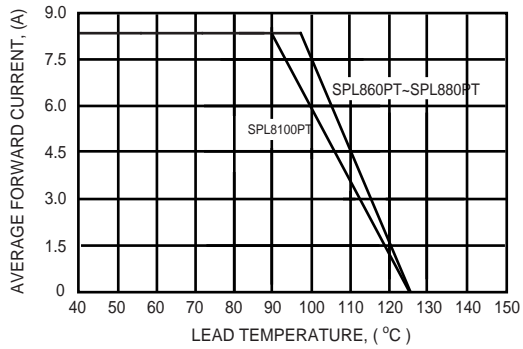


FIG. 2 - INSTANTANEOUS FORWARD CURRENT, (A)

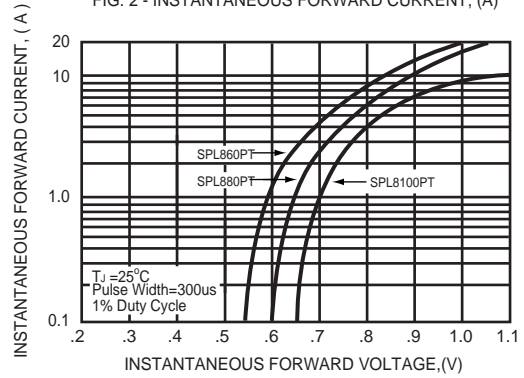


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

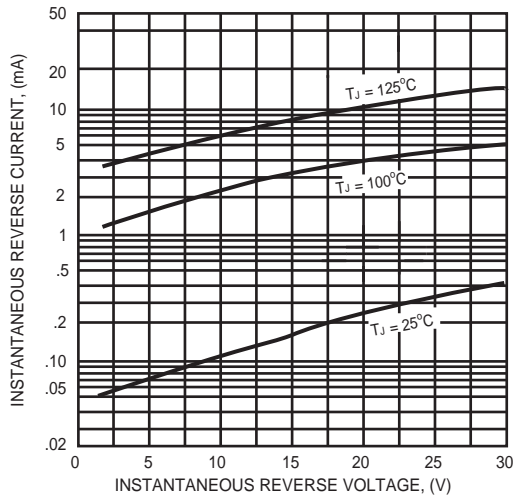


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

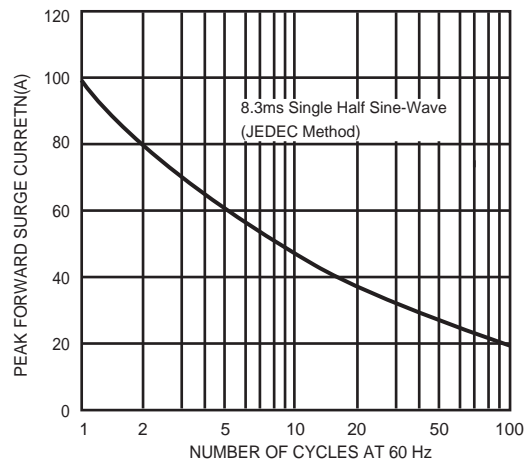


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

