



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 60 - 100 Volts CURRENT 3.0 Amperes

Lead free devices

**SPL360PT
THRU
SPL3100PT**

PROVISIONAL SPEC.

APPLICATION

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

FEATURE

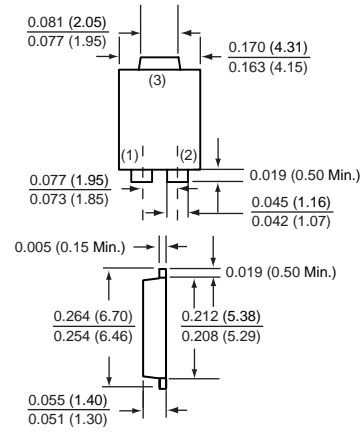
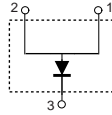
- * Small Surface Mounting Type. (SMP)
- * High speed ($T_{RR}=8.0nSec$ TYP.)
- * Low Power Loss, High Efficiency .
- * Low Forward Voltage Drop .
- * Peak Forward Surge Current Is 110A.
- * Schottky Diode Array .

WEIGHT

MARKING

SMP

CIRCUIT



SMP

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

RATINGS	SYMBOL	SPL360PT	SPL380PT	SPL3100PT	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	I_o	3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	110			Amps
Typical Junction Capacitance (Note 2)	C_J	250			pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	15			$^{\circ}C / W$
Operating Temperature Range	T_J	-65 to +125			$^{\circ}C$
Storage Temperature Range	T_{STG}	-65 to +150			$^{\circ}C$

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

CHARACTERISTICS	SYMBOL	SPL360PT	SPL380PT	SPL3100PT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC (Note 1)	V_F	0.70	0.75	0.80	Volts
Maximum Average Reverse Current (Note 1) at Rated DC Blocking Voltage	@ $T_A = 25^{\circ}C$	0.5			mAmps
	@ $T_A = 100^{\circ}C$	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 (SPL360PT THRU SPL3100PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

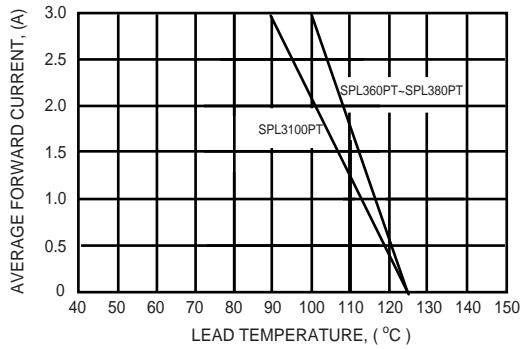


FIG. 2 - INSTANTANEOUS FORWARD CURRENT, (A)

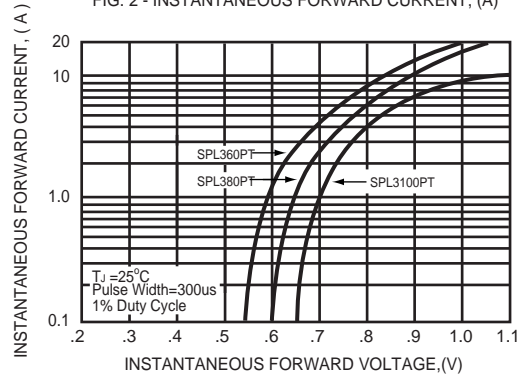


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

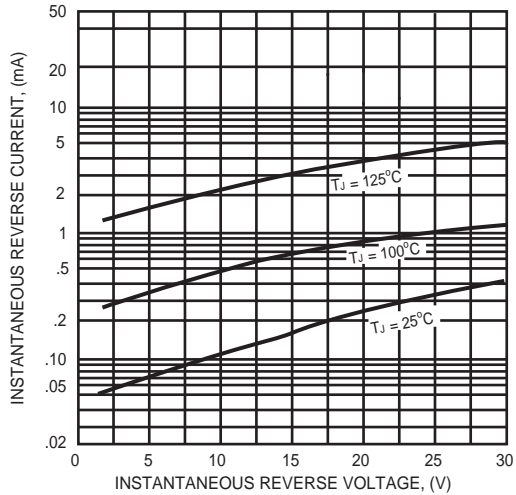


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

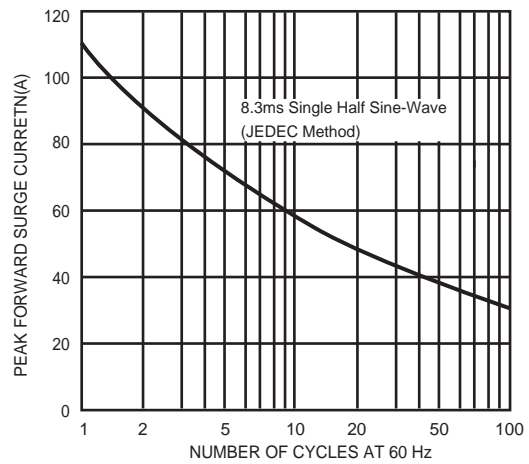


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

