



# CHENMKO ENTERPRISE CO.,LTD

Lead free devices

## SURFACE MOUNT

### SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 Volts CURRENT 3.0 Amperes

**SPL320LLPT**

**PROVISIONAL SPEC.**

#### APPLICATION

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

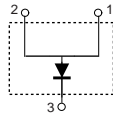
#### FEATURE

- \* Small Surface Mounting Type. (SMP)
- \* Low Power Loss, High Efficiency
- \* Low Reverse Current
- \* Peak Forward Surge Current Is 80A.
- \* Schottky Diode Array .

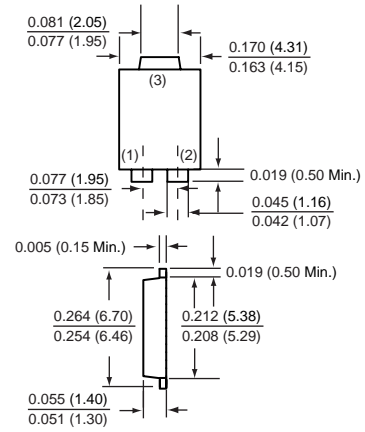
#### WEIGHT

#### MARKING

#### CIRCUIT



**SMP**



**SMP**

#### MAXIMUM RATINGS ( At TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	SPL320LLPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	80	Amps
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	210	pF
Typical Thermal Resistance (Note 1)	R <sub>θJL</sub>	15	°C / W
Operating Temperature Range	T <sub>J</sub>	-65 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C

#### ELECTRICAL CHARACTERISTICS ( At TA = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	SPL320LLPT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC	V <sub>F</sub>	0.30	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	1.0	mAmps
	@ TA = 100°C	20	mAmps

- NOTES : 1. P.C.B. mounted 0.31 x 0.31" ( 8 x 8mm) copper pad areas  
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2004-8

## RATING CHARACTERISTIC CURVES ( SPL320LLPT )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

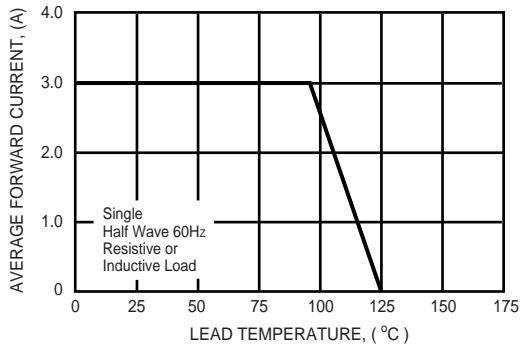


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

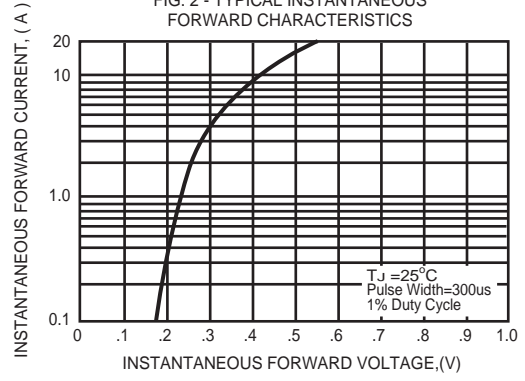


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

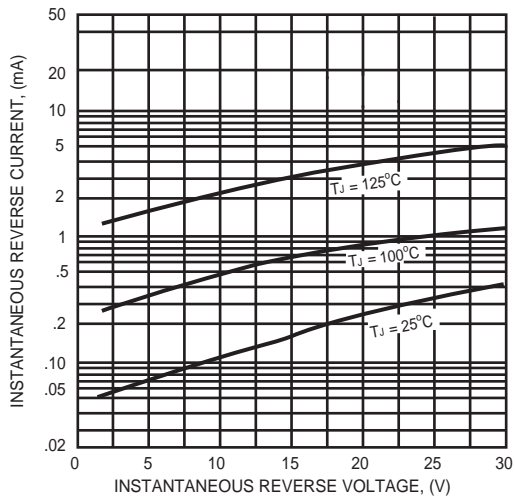


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

