



# CHENMKO ENTERPRISE CO.,LTD

Lead free devices

## SURFACE MOUNT SCHOTTKY DIODE ARRAY VOLTAGE 100 Volts CURRENT 15 Amperes

**MPL15100PT**  
**PROVISIONAL SPEC.**

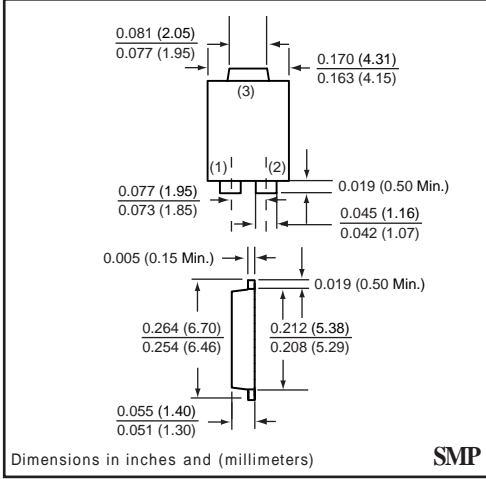
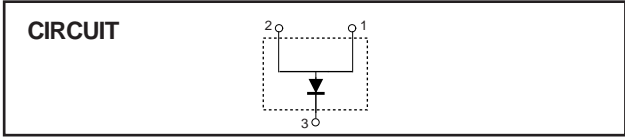
**APPLICATION**

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

**FEATURE**

- \* Small Surface Mounting Type. (SMP)
- \* Low Power Loss, High Efficiency .
- \* Low Forward Voltage Drop .
- \* Peak Forward Surge Current Is 100A.
- \* Schottky Diode Array .

**SMP**



RATINGS	SYMBOL	MPL15100PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	70	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	15	Amps
Non-Repetitive Peak Forward Surge Current at 8.3 mSec.	I <sub>FSM</sub>	100	Amps
Total Capacitance ( f=1.0MHZ , V <sub>R</sub> =4.0VDC)	C <sub>T</sub>	500	pF
Typical Thermal Resistance	R <sub>θj-s</sub>	3.2	°C/W
Maximum Operating Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	MPL15100PT	UNITS	
Typ. Forward Voltage	@I <sub>F</sub> = 15A , T <sub>c</sub> =25 °C	V <sub>F</sub>	0.85	Volts
Maximum Reverse Current	@V <sub>R</sub> = 100V , T <sub>c</sub> =25°C	I <sub>R</sub>	10	uAmps

## RATING CHARACTERISTIC CURVES ( MPL15100PT )

FIG. 1 - FORWARD CHARACTERISTICS

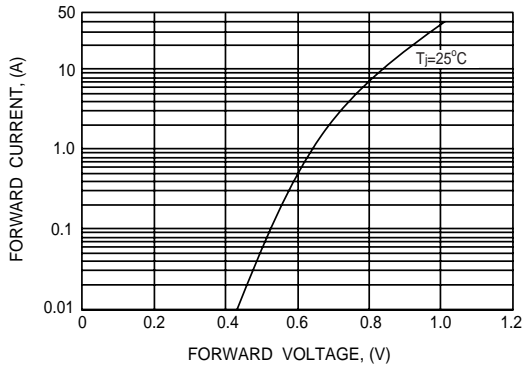


FIG. 2 - REVERSE CHARACTERISTICS

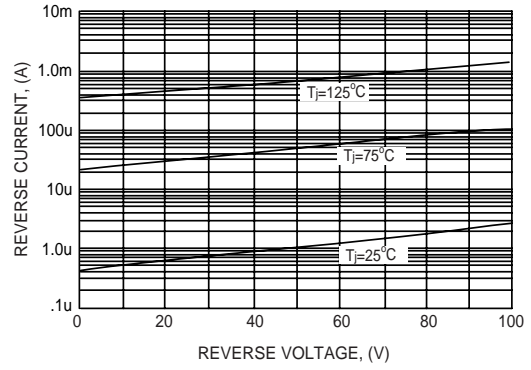


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

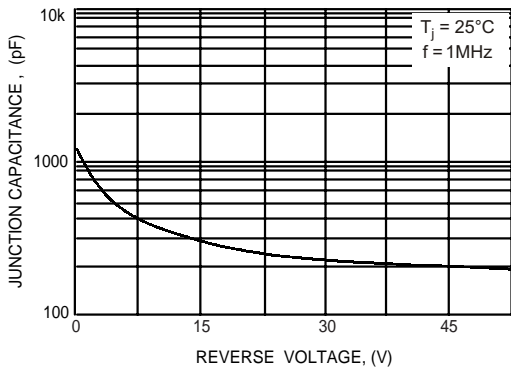


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

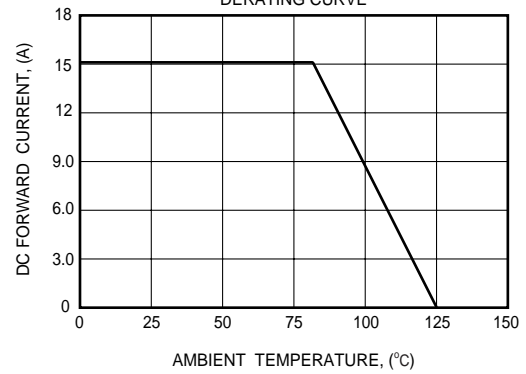


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD SURGE CURRENT

