



# CHENMKO ENTERPRISE CO.,LTD

Lead free devices

## SURFACE MOUNT SCHOTTKY DIODE ARRAY

VOLTAGE 40 Volts CURRENT 15 Amperes

**MPL1540PT**

PROVISIONAL SPEC.

### APPLICATION

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

### FEATURE

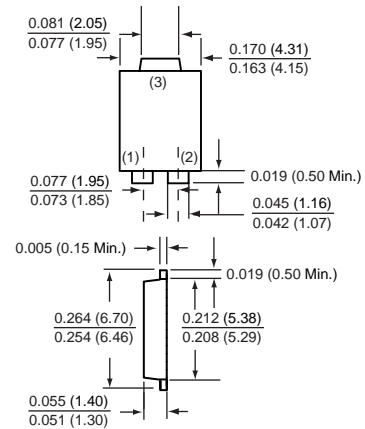
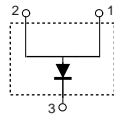
- \* Small Surface Mounting Type. (SMP)
- \* Low Power Loss, High Efficiency .
- \* Low Forward Voltage Drop .
- \* Peak Forward Surge Current Is 100A.
- \* Schottky Diode Array .

### WEIGHT

### MARKING

SMP

### CIRCUIT



Dimensions in inches and (millimeters)

SMP

RATINGS	SYMBOL	MPL1540PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	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>	160	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	MPL1540PT	UNITS	
Typ. Forward Voltage	@I <sub>F</sub> = 15A , T <sub>S</sub> =25°C	V <sub>F</sub>	0.60	Volts
Maximum Reverse Current	@V <sub>R</sub> = 100V , T <sub>S</sub> =25°C	I <sub>R</sub>	10	uAmps

## RATING CHARACTERISTIC CURVES ( MPL1540PT )

FIG. 1 - FORWARD CHARACTERISTICS

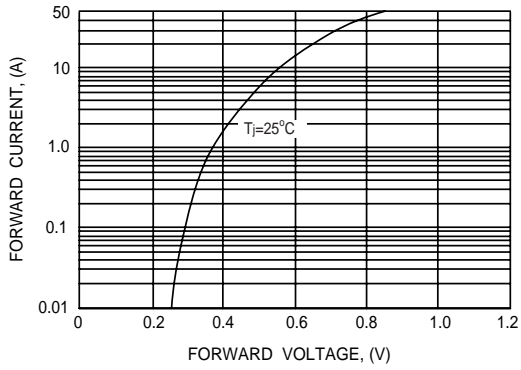


FIG. 2 - REVERSE CHARACTERISTICS

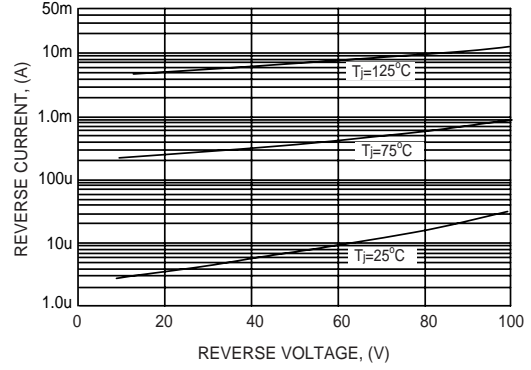


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

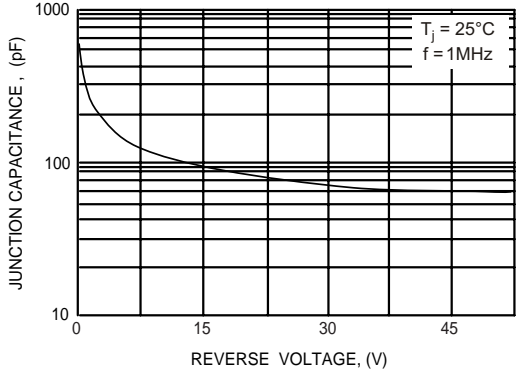


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

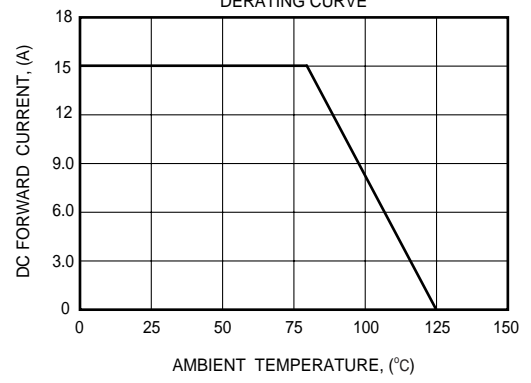


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD SURGE CURRENT

