



CHENMKO ENTERPRISE CO.,LTD

MPL5100PT

SURFACE MOUNT

SCHOTTKY DIODE ARRAY

VOLTAGE 100 Volts CURRENT 5 Amperes

PROVISIONAL SPEC.

Lead free devices

APPLICATION

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

www.DataSheet4U.com

FEATURE

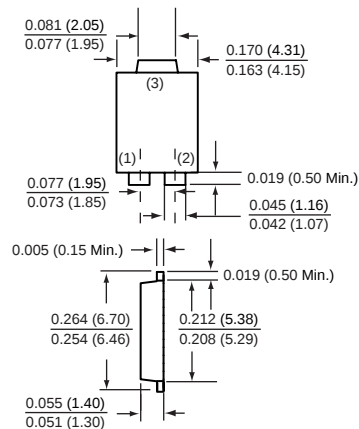
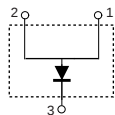
- * Small Surface Mounting Type. (SMP)
- * Low Power Loss, High Efficiency
- * Low Forward Voltage Drop
- * Peak Forward Surge Current Is 100A.
- * Schottky Diode Array

WEIGHT

MARKING

SMP

CIRCUIT



Dimensions in inches and (millimeters)

SMP

RATINGS	SYMBOL	MPL5100PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	Volts
Maximum RMS Voltage	VRMS	70	Volts
Maximum DC Blocking Voltage	VDC	100	Volts
Maximum Average Forward Rectified Current	IO	5	Amps
Non-Repetitive Peak Forward Surge Current at 8.3 mSec.	IFSM	100	Amps
Total Capacitance (f=1.0MHZ , VR=4.0VDC)	CT	180	pF
Typical Thermal Resistance	RθJS	3.2	°C/W
Maximum Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	TSTG	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	MPL5100PT	UNITS
Typ. Forward Voltage	VF	0.85	Volts
Maximum Reverse Current	IR	10	uAmps

RATING CHARACTERISTIC CURVES (MPL5100PT)

FIG. 1 - FORWARD CHARACTERISTICS

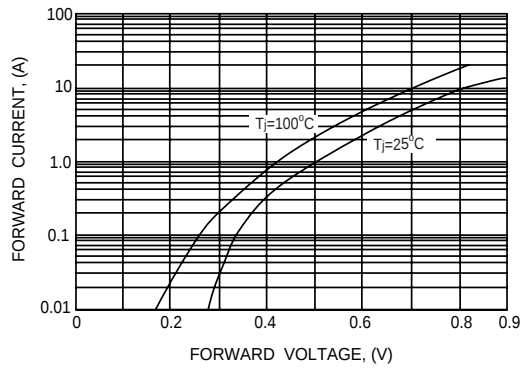


FIG. 2 - REVERSE CHARACTERISTICS

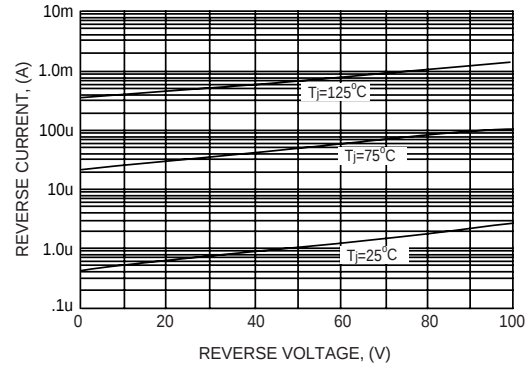


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

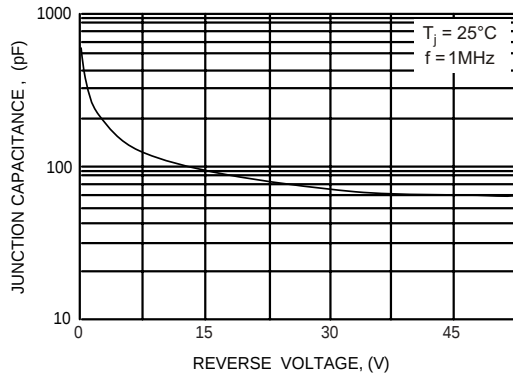


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

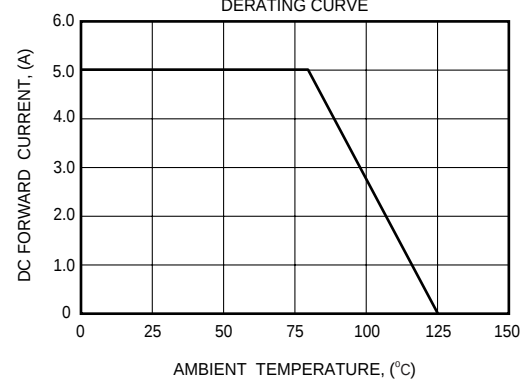


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD SURGE CURRENT

