



CHENMKO ENTERPRISE CO.,LTD

MPL5100PT
PROVISIONAL SPEC.

Lead free devices

SURFACE MOUNT
SCHOTTKY DIODE ARRAY
VOLTAGE 100 Volts CURRENT 5 Amperes

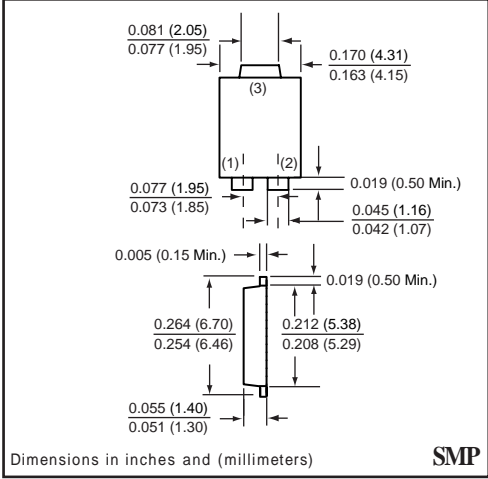
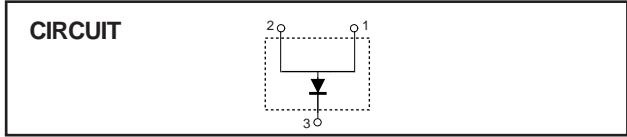
APPLICATION
* DC to DC Converters
* Switch- Mode Power Supplies
* Notebook PC

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



RATINGS	SYMBOL	MPL5100PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	Volts
Maximum RMS Voltage	V _{RMS}	70	Volts
Maximum DC Blocking Voltage	V _{DC}	100	Volts
Maximum Average Forward Rectified Current	I _O	5	Amps
Non-Repetitive Peak Forward Surge Current at 8.3 mSec.	I _{FSM}	100	Amps
Total Capacitance (f=1.0MHZ , V _R =4.0VDC)	C _T	180	pF
Typical Thermal Resistance	R _{θj-s}	3.2	°C/W
Maximum Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	MPL5100PT	UNITS
Typ. Forward Voltage @I _F = 5A , T _s =25°C	V _F	0.85	Volts
Maximum Reverse Current @V _R = 100V , T _s =25°C	I _R	10	uAmps

RATING CHARACTERISTIC CURVES (MPL5100PT)

FIG. 1 - FORWARD CHARACTERISTICS

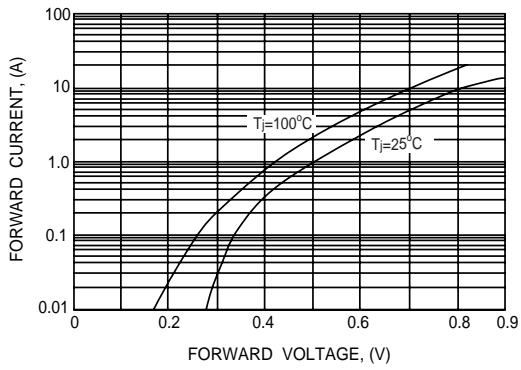


FIG. 2 - REVERSE CHARACTERISTICS

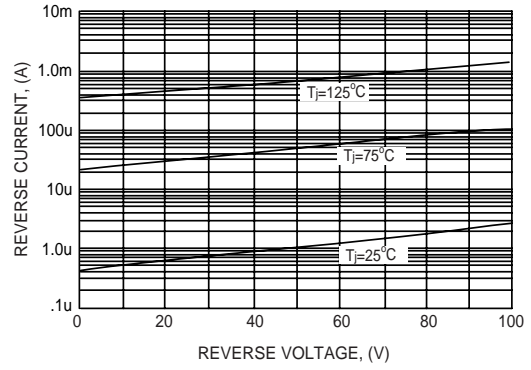


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

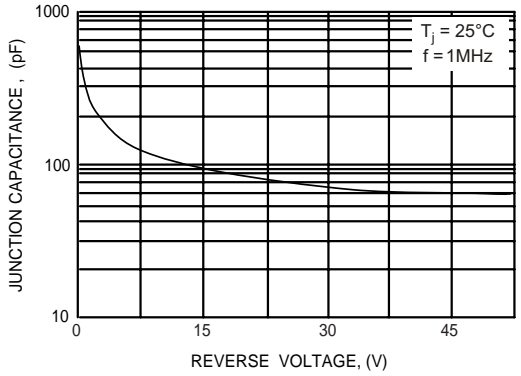


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

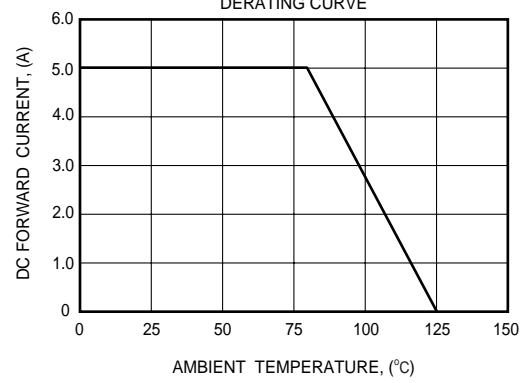


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD SURGE CURRENT

