



CHENMKO ENTERPRISE CO.,LTD

MPL3100PT
PROVISIONAL SPEC.

Lead free devices

SURFACE MOUNT
SCHOTTKY DIODE ARRAY
VOLTAGE 100 Volts CURRENT 3 Amperes

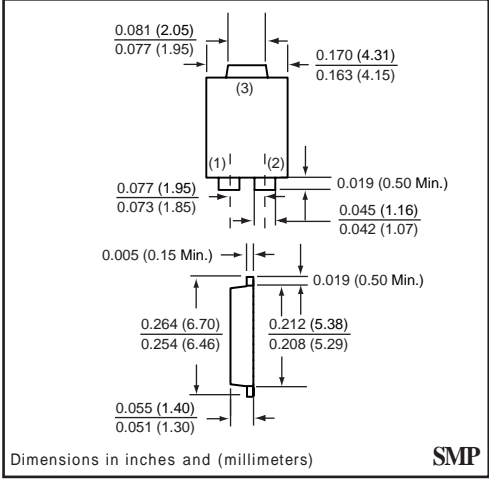
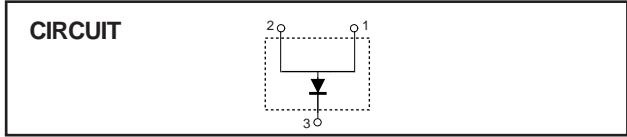
APPLICATION
 * DC to DC Converters
 * Switch- Mode Power Supplies
 * Notebook PC

FEATURE
 * Small Surface Mounting Type. (SMP)
 * Low Power Loss, High Efficiency .
 * Low Forward Voltage Drop .
 * Peak Forward Surge Current Is 50A.
 * Schottky Diode Array .

WEIGHT

MARKING

SMP



RATINGS	SYMBOL	MPL3100PT	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	3	Amps
Non-Repetitive Peak Forward Surge Current at 8.3 mSec.	I _{FSM}	50	Amps
Total Capacitance (f=1.0MHZ , V _R =4.0VDC)	C _T	100	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	MPL3100PT	UNITS
Typ. Forward Voltage @I _F = 3A , 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 (MPL3100PT)

FIG. 1 - FORWARD CHARACTERISTICS

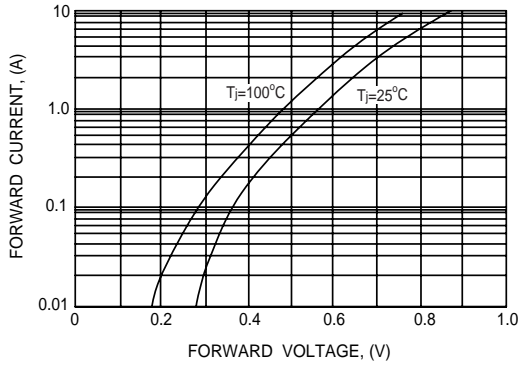


FIG. 2 - REVERSE CHARACTERISTICS

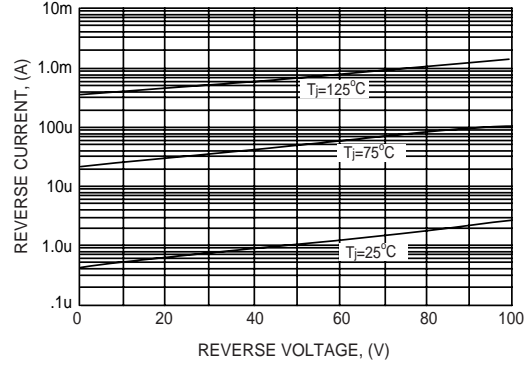


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

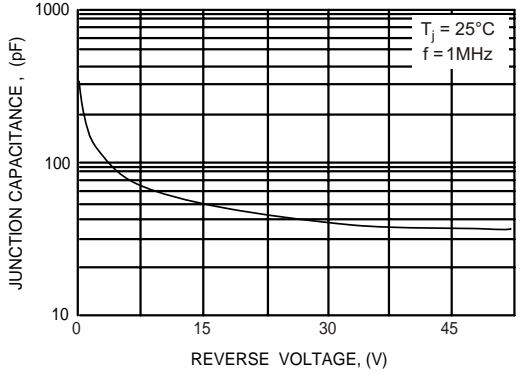


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

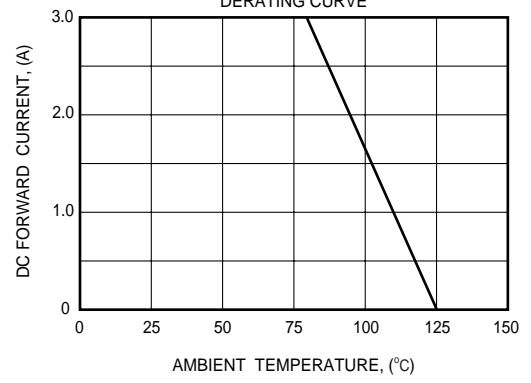


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD SURGE CURRENT

