CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY DIODE ARRAY

VOLTAGE 40 Volts CURRENT 10 Amperes

SPL1040ACTPT

PROVISIONAL SPEC.

APPLICATION

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

FEATURE

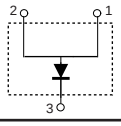
* Small Surface Mounting Type. (SMP)
* High speed (T_{RR}=8.0nSec TYP.)
* Low Power Loss, High Efficiency.
* Low Forward Voltage Drop.
* Peak Forward Surge Current Is 100A.
* Schottky Diode Array .

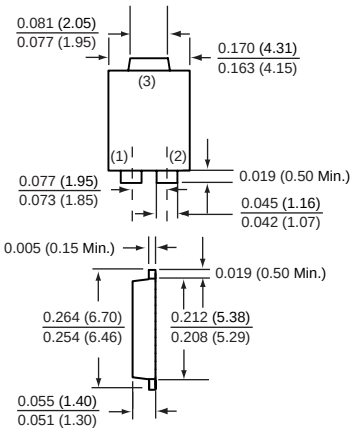
WEIGHT

MARKING

SMP

CIRCUIT





Dimensions in inches and (millimeters)

SMP

RATINGS	SYMBOL	SPL1040ACTPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum DC Blocking Voltage	V_{DC}	40	Volts
Maximum Average Forward Rectified Current	I_O	10	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	700	pF
Typical Thermal Resistance	$R\theta_{J-S}$	2.5	°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	SPL1040ACTPT	UNITS
Typ. Forward Voltage	@I_F= 5.0A , T_S=25°C	V_F	0.50	Volts
Maximum Reverse Current	@V_R= 40V , T_S=25°C	I_R	0.5	mAmps

2004-8

RATING CHARACTERISTIC CURVES (SPL1040ACTPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

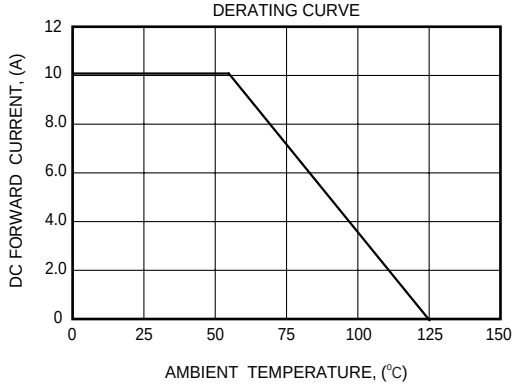


FIG. 2 - FORWARD CHARACTERISTICS

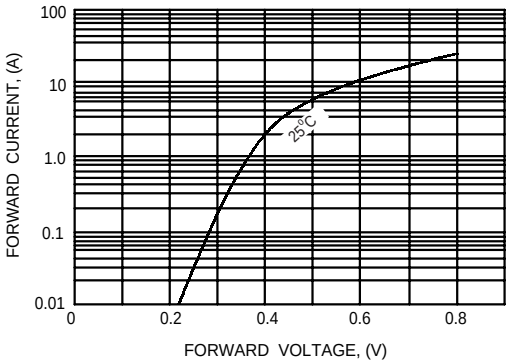


FIG. 3 - REVERSE CHARACTERISTICS

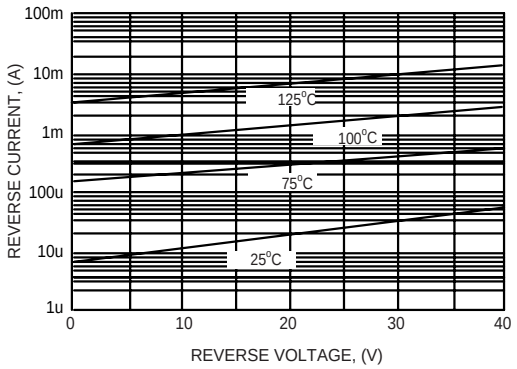


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

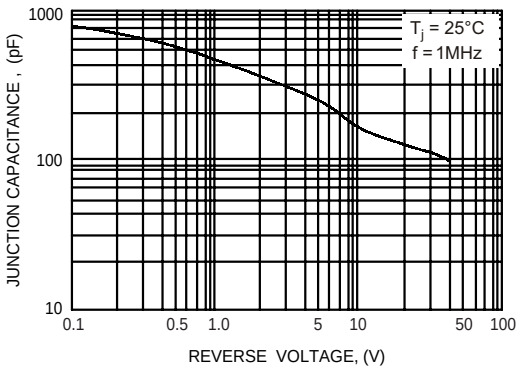


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD SURGE CURRENT

