CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE 40 Volts CURRENT 10 Amperes

SPL1040LAPT

PROVISIONAL SPEC.

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

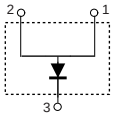
FEATURE
* Small Surface Mounting Type. (SMP)
* Low Power Loss, High Efficiency .
* Low Reverse Current
* Peak Forward Surge Current Is 80A.
* Schottky Diode Array .

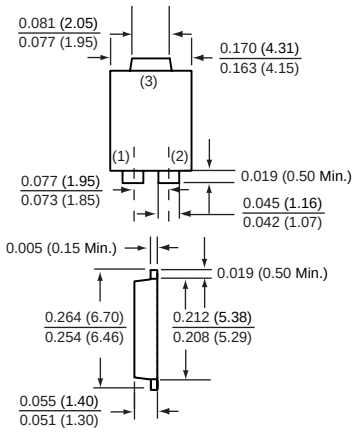
WEIGHT

MARKING

SMP

CIRCUIT





Dimensions in inches and (millimeters)

SMP

MAXIMUM RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	SPL1040LAPT	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
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80	Amps
Typical Junction Capacitance (Note 2)	C_J	210	pF
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	15	°C / W
Operating Temperature Range	T_J	-65 to +125	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

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

CHARACTERISTICS		SYMBOL	SPL1040LAPT	UNITS
Maximum Instantaneous Forward Voltage at 10 A DC		V_F	0.385	Volts
Maximum Average Reverse Current	@ T_A = 25°C	I_R	1.0	mAmps
at Rated DC Blocking Voltage	@ T_A = 100°C		20	mAmps

NOTES : 1. P.C.B. mounted 0.31 x 0.31" (8 x 8mm) copper pad areas
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

RATING CHARACTERISTIC CURVES (SPL1040LAPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

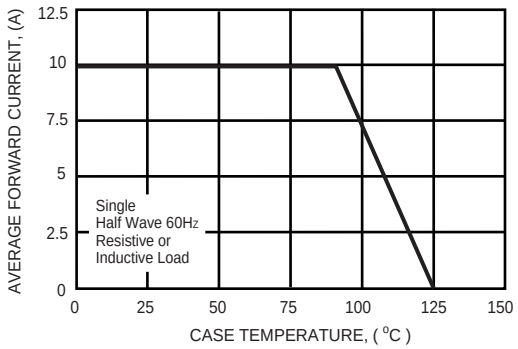


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

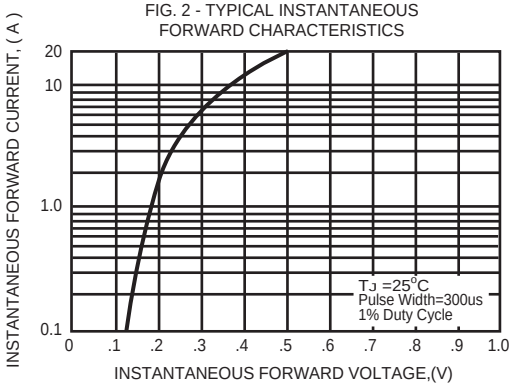


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

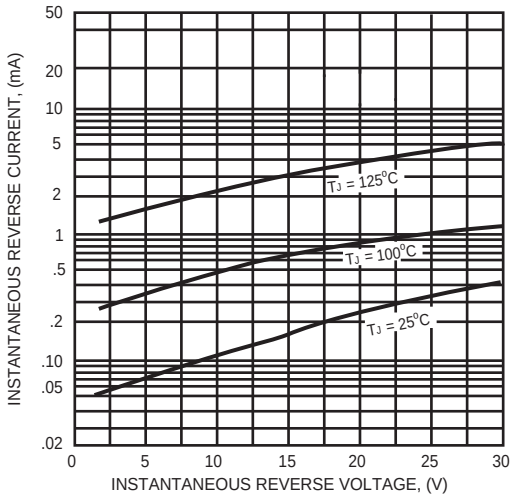


FIG. 4 - MAXIMUM NON-REPETIVE FORWARD SURGE CURRENT

