



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

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

SPL1040LAPT

PROVISIONAL SPEC.

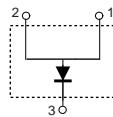
APPLICATION

- * DC to DC Converters
 - * Switch- Mode Power Supplies
 - * Notebook PC
- FEATURE**
- * Small Surface Mounting Type. (SMP)
 - * Low Power Loss, High Efficiency .
 - * Low Reverse Current
 - * Peak Forward Surge Current Is 80A.
 - * Schottky Diode Array .

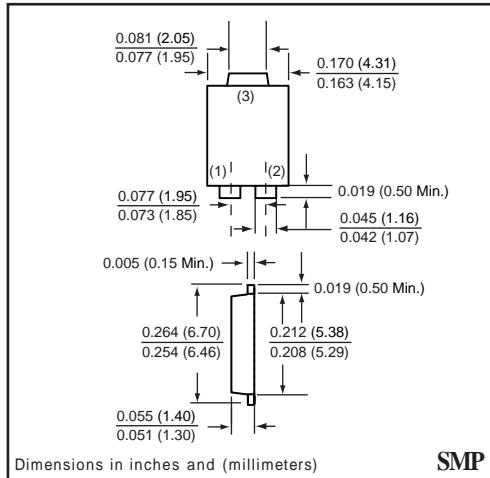
WEIGHT

MARKING

CIRCUIT



SMP



SMP

MAXIMUM RATINGS (At TA = 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 _D	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 _{θJL}	15	°C / W
Operating Temperature Range	T _J	-65 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS (At TA = 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 at Rated DC Blocking Voltage	I _R	1.0	mAmps
		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

2004-8

RATING CHARACTERISTIC CURVES (SPL1040LAPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

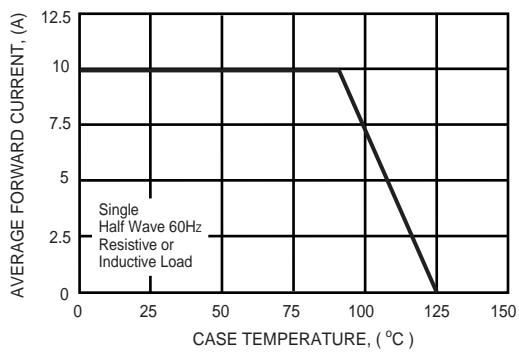


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

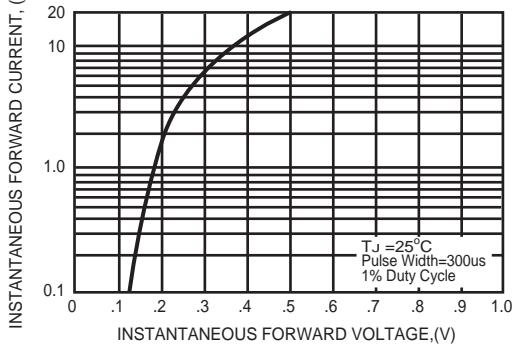


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

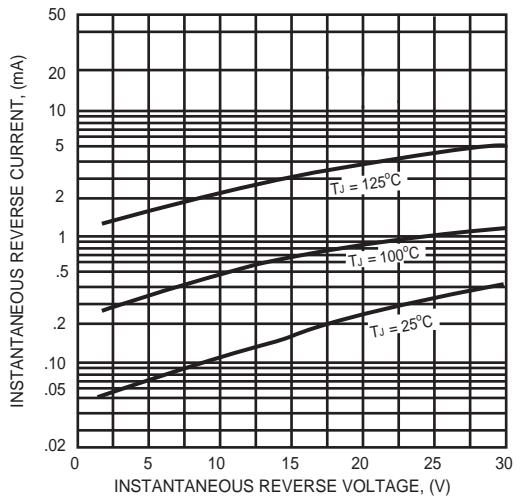


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

