



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 40 Volts CURRENT 8.0 Amperes

SPL840LAPT

PROVISIONAL SPEC.

APPLICATION

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

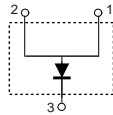
FEATURE

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

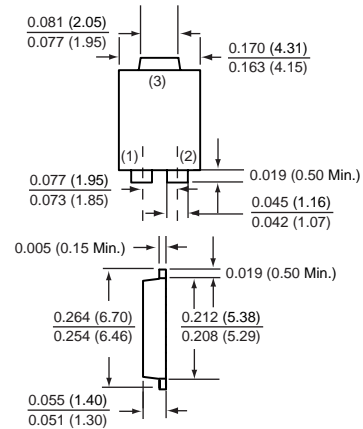
WEIGHT

MARKING

CIRCUIT



SMP



SMP

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SPL840LAPT	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	8.0	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	SPL840LAPT	UNITS
Maximum Instantaneous Forward Voltage at 8.0 A DC	V _F	0.385	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	1.0	mAmps
	@ TA = 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

2004-8

RATING CHARACTERISTIC CURVES (SPL840LAPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

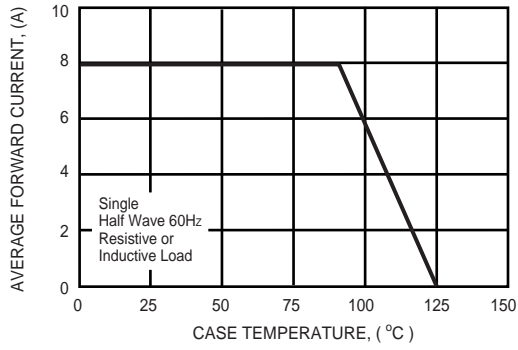


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

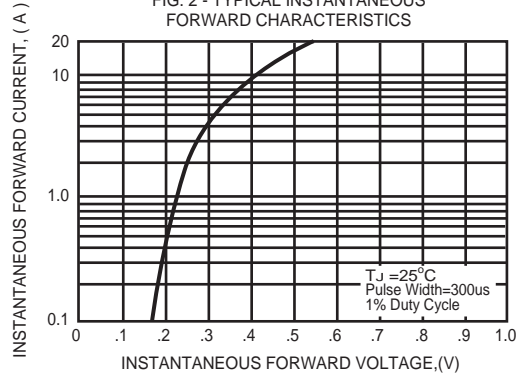


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

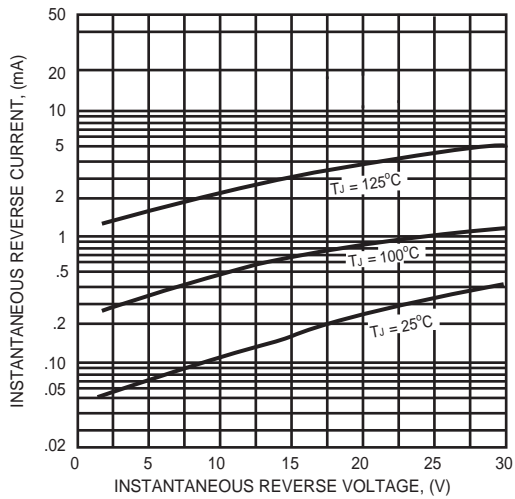


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

