



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 60 Volts CURRENT 10 Amperes

SPL1020CTPT

THRU

SPL1060CTPT

PROVISIONAL SPEC.

Lead free devices

APPLICATION

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

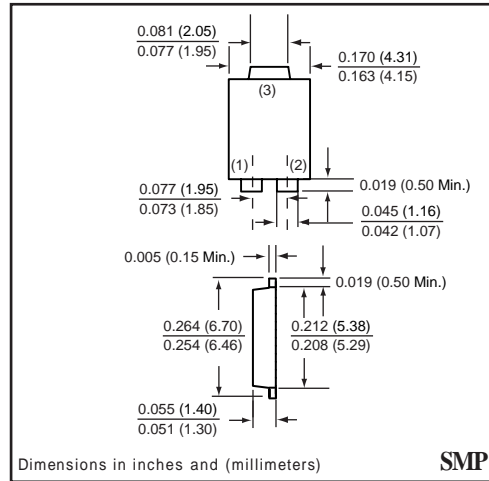
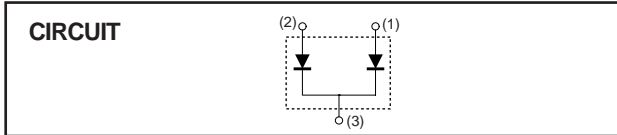
FEATURE

- * Small Surface Mounting Type. (SMP)
- * Low Power Loss, High Efficiency
- * Low Forward Voltage Drop
- * Peak Forward Surge Current Is 100A.
- * Schottky Diode Array

WEIGHT

MARKING

SMP



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

RATINGS	SYMBOL	SPL1020CTPT	SPL1030CTPT	SPL1040CTPT	SPL1050CTPT	SPL1060CTPT	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	Volts	
Maximum RMS Voltage	VRMS	14	21	28	35	42	Volts	
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts	
Maximum Average Forward Rectified Current at TL (SEE FIG.1)(Note 3)	IO	10						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100						Amps
Typical Junction Capacitance (Note 2)	CJ	250						pF
Typical Thermal Resistance (Note 3)	RθJL	15						°C / W
Operating Temperature Range	TJ	-65 to +125						°C
Storage Temperature Range	TSTG	-65 to +150						°C

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

CHARACTERISTICS	SYMBOL	SPL1020CTPT	SPL1030CTPT	SPL1040CTPT	SPL1050CTPT	SPL1060CTPT	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A DC (Note 1)	VF	0.55			0.70		Volts
Maximum Average Reverse Current (Note 1) at Rated DC Blocking Voltage	@ TA = 25°C	0.5					mAmps
	@ TA = 100°C	20			10		mAmps

NOTES : 1. Pulse test : 300 us pulse width, 1% duty cycle
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
 3. P.C.B. mounted 0.31 x 0.31" (8 x 8mm) copper pad areas

RATING CHARACTERISTIC CURVES (SPL1020CTPT THRU SPL1060CTPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

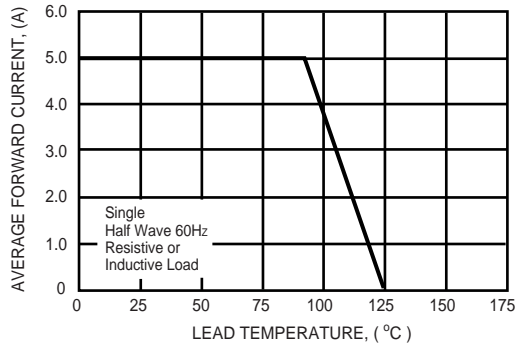


FIG. 2 - INSTANTANEOUS FORWARD CURRENT, (A)

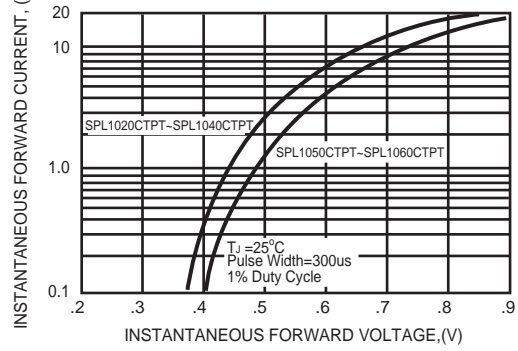


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

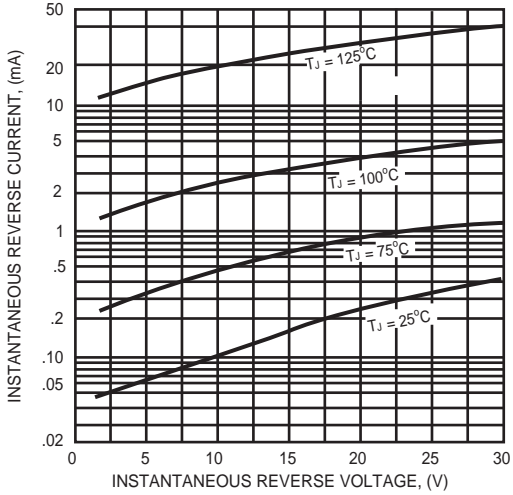


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

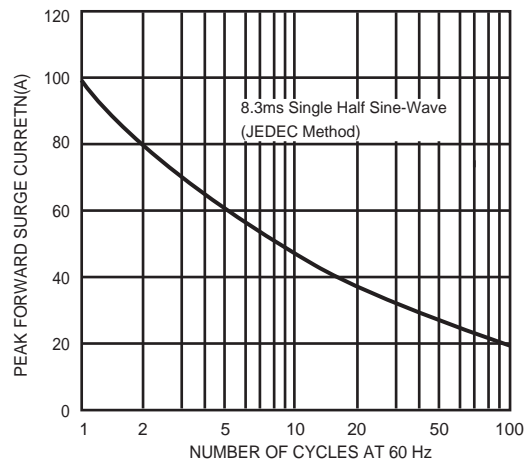


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

