



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 60 Volts CURRENT 6.0 Amperes

SPL620CTPT

THRU

SPL660CTPT

PROVISIONAL SPEC.

APPLICATION

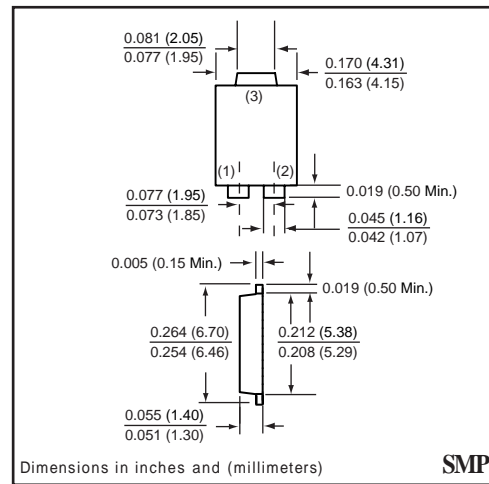
- * DC to DC Converters
- * Switch- Mode Power Supplies
- * Notebook PC

FEATURE

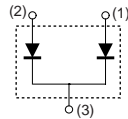
- * Small Surface Mounting Type. (SMP)
- * Low Power Loss, High Efficiency
- * Low Forward Voltage Drop
- * Peak Forward Surge Current Is 80A.
- * Schottky Diode Array

WEIGHT

MARKING



CIRCUIT



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

RATINGS	SYMBOL	SPL620CTPT	SPL630CTPT	SPL640CTPT	SPL650CTPT	SPL660CTPT	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	6.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80					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	SPL620CTPT	SPL630CTPT	SPL640CTPT	SPL650CTPT	SPL660CTPT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 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 (SPL620CTPT THRU SPL660CTPT)

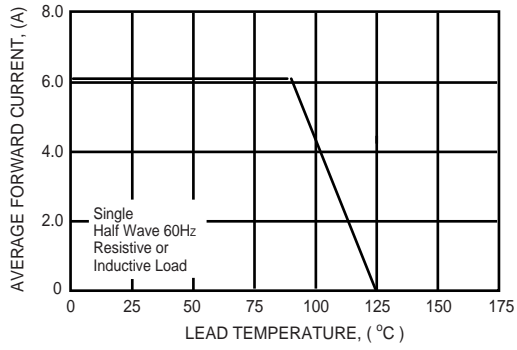


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

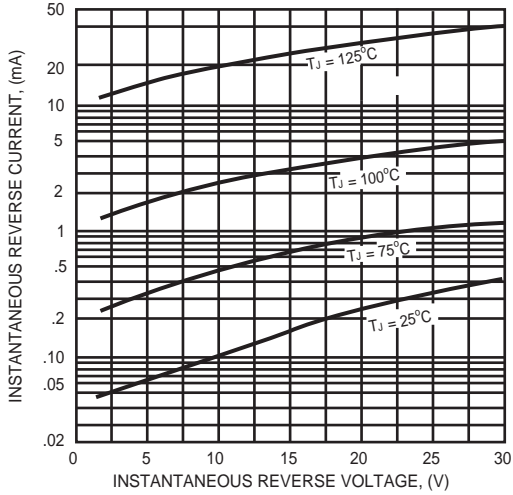


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

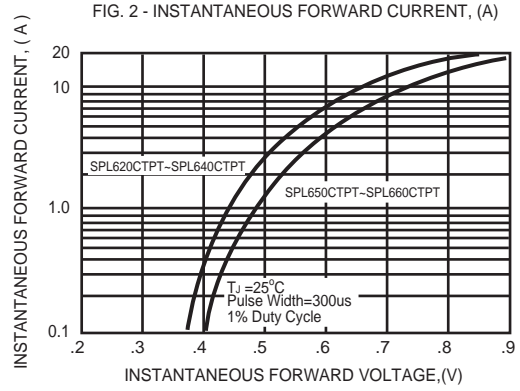
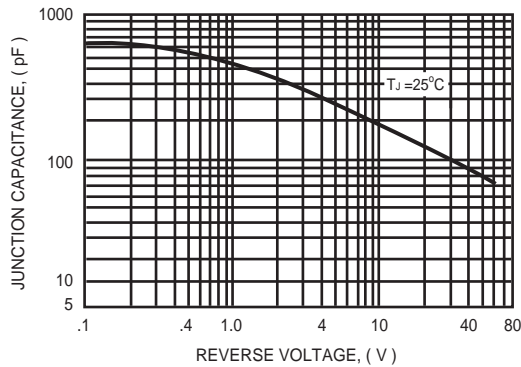


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

