



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 70 - 100 Volts CURRENT 6.0 Amperes

SPL670CTPT

THRU

SPL6100CTPT

PROVISIONAL SPEC.

APPLICATION

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

FEATURE

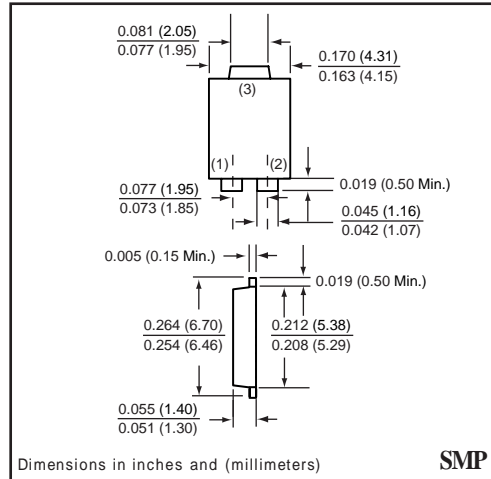
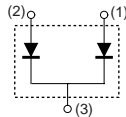
- * Small Surface Mounting Type. (SMP)
- * Low Power Loss, High Efficiency
- * Low Forward Voltage Drop
- * Peak Forward Surge Current Is 80A.
- * Schottky Diode Array

WEIGHT

MARKING

SMP

CIRCUIT



SMP

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

RATINGS	SYMBOL	SPL670CTPT	SPL680CTPT	SPL690CTPT	SPL6100CTPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	70	80	90	100	Volts
Maximum RMS Voltage	VRMS	49	56	63	70	Volts
Maximum DC Blocking Voltage	VDC	70	80	90	100	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)	R θ JL	15				°C / W
Operating and Storage Temperature Range	TJ,TSTG	-65 to +125				°C

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

CHARACTERISTICS	SYMBOL	SPL670CTPT	SPL680CTPT	SPL690CTPT	SPL6100CTPT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC (Note 1)	VF	0.75		0.80		Volts
Maximum Average Reverse Current (Note 1) at Rated DC Blocking Voltage	@ TA = 25°C	0.5				mAmps
	@ TA = 100°C	20				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 (SPL670CTPT THRU SPL6100CTPT)

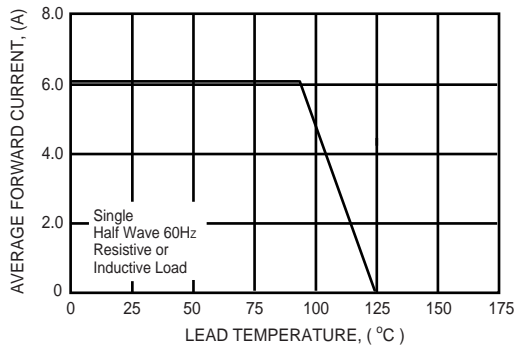


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

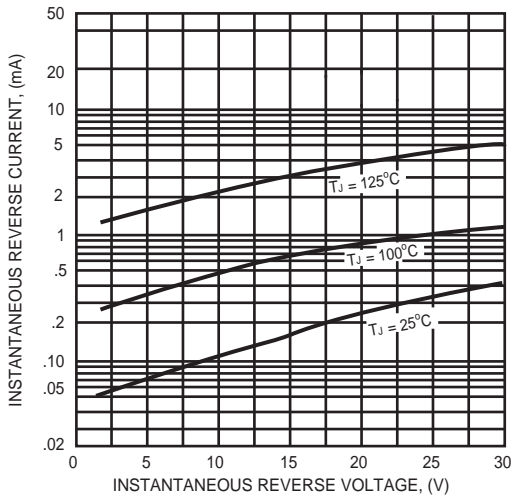


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

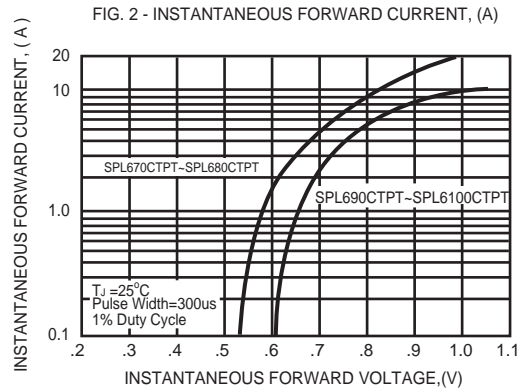
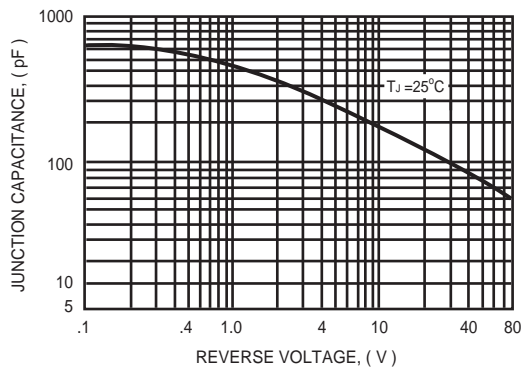


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

