



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 60 Volts CURRENT 6.0 Amperes

SPL620CTPT

THRU

SPL660CTPT

PROVISIONAL SPEC.

Lead free devices

APPLICATION

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

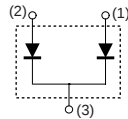
FEATURE

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

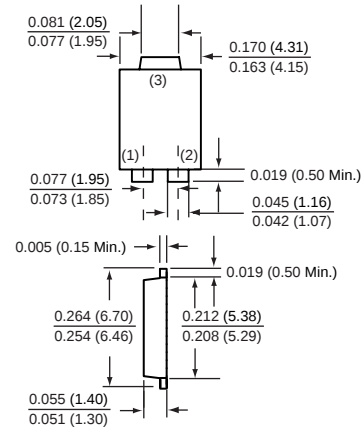
WEIGHT

MARKING

CIRCUIT



SMP



Dimensions in inches and (millimeters)

SMP

MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	SPL620CTPT	SPL630CTPT	SPL640CTPT	SPL650CTPT	SPL660CTPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at T_L (SEE FIG.1)(Note 3)	I_O	6.0					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	250					pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	15					$^\circ\text{C} / \text{W}$
Operating Temperature Range	T_J	-65 to +125					$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150					$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS		SYMBOL	SPL620CTPT	SPL630CTPT	SPL640CTPT	SPL650CTPT	SPL660CTPT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC (Note 1)		V _F	0.55			0.70		Volts
Maximum Average Reverse Current (Note 1)	@ T _A = 25°C	I _R	0.5					mAmps
at Rated DC Blocking Voltage	@ T _A = 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

2004-8

RATING CHARACTERISTIC CURVES (SPL620CTPT THRU SPL660CTPT)

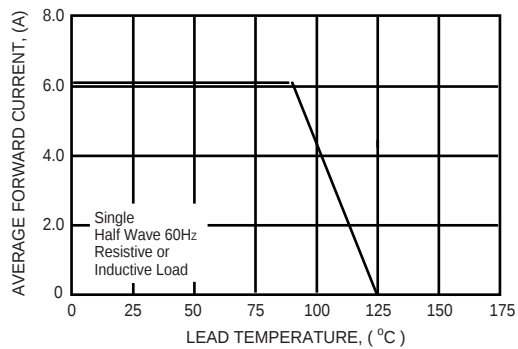


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

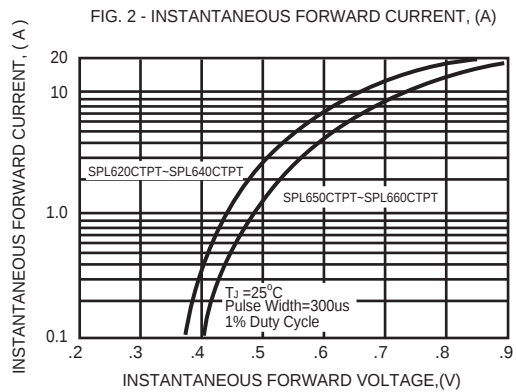
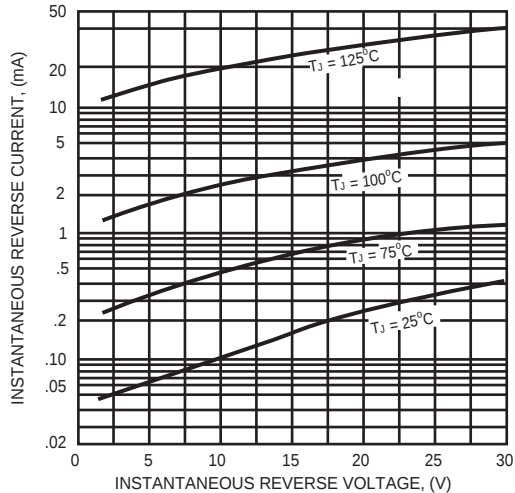


FIG. 2 - INSTANTANEOUS FORWARD CURRENT, (A)

FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

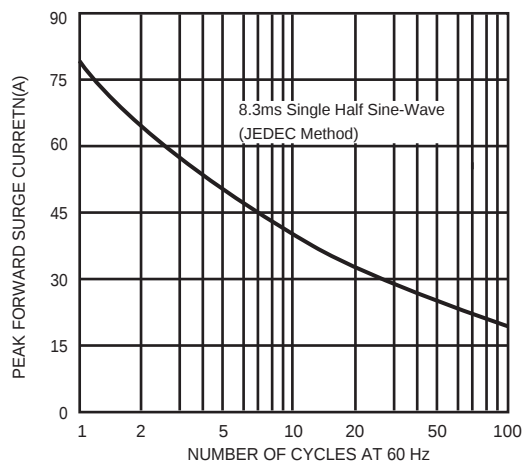


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

