



# CHENMKO ENTERPRISE CO.,LTD

Lead free devices

## SURFACE MOUNT

### SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 60 Volts CURRENT 2.0 Ampere

SPL220CTPT

THRU

SPL260CTPT

PROVISIONAL SPEC.

#### APPLICATION

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

#### FEATURE

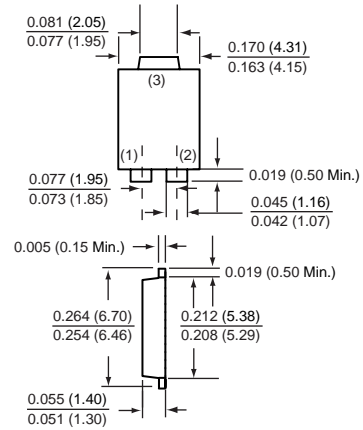
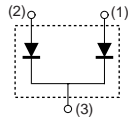
- \* Small Surface Mounting Type. (SMP)
- \* Low Power Loss, High Efficiency
- \* Low Forward Voltage Drop
- \* Peak Forward Surge Current Is 40A.
- \* Schottky Diode Array

#### WEIGHT

#### MARKING

SMP

#### CIRCUIT



Dimensions in inches and (millimeters)

SMP

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

RATINGS	SYMBOL	SPL220CTPT	SPL230CTPT	SPL240CTPT	SPL250CTPT	SPL260CTPT	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	Io	2.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	40					Amps
Typical Junction Capacitance (Note 2)	CJ	110					pF
Typical Thermal Resistance (Note 1)	RθJL	22					°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	SPL220CTPT	SPL230CTPT	SPL240CTPT	SPL250CTPT	SPL260CTPT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC	VF	0.50			0.70		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	0.5					mAmps
	@ TA = 100°C	10					mAmps

NOTES : 1. Thermal Resistance ( Junction to Lead ) : PC Board Mounted on 0.2 X 0.2" ( 5 X 5mm ) copper pad area.  
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2004-8

# RATING CHARACTERISTIC CURVES ( SPL220CTPT THRU SPL260CTPT )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

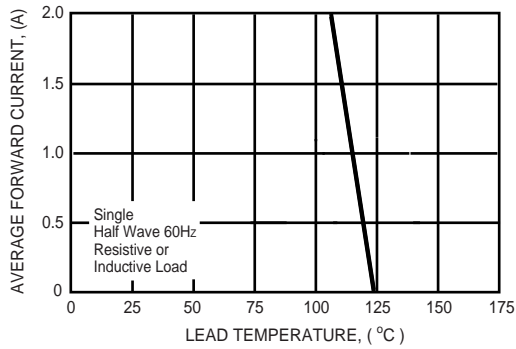


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

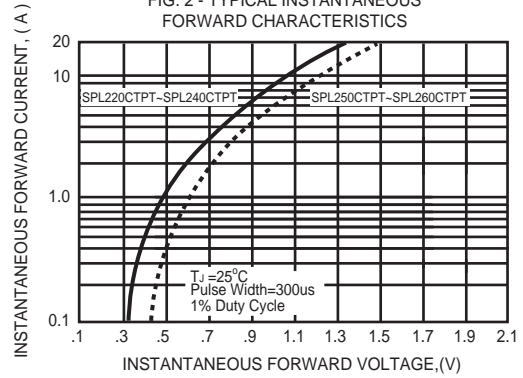


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

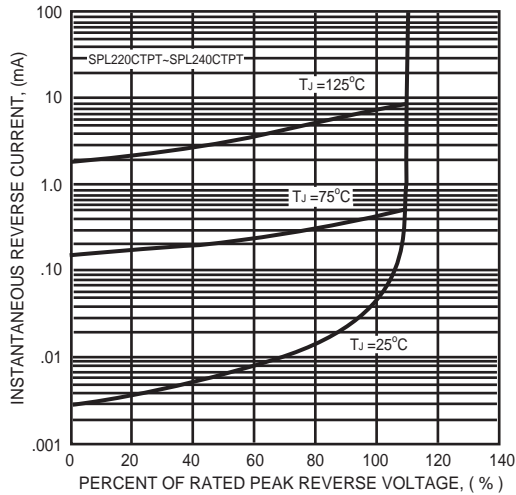


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

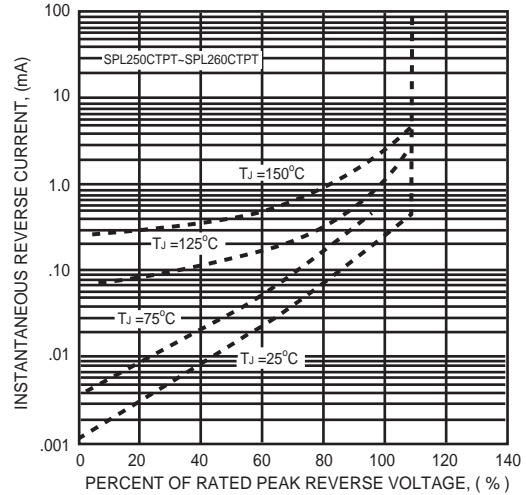


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

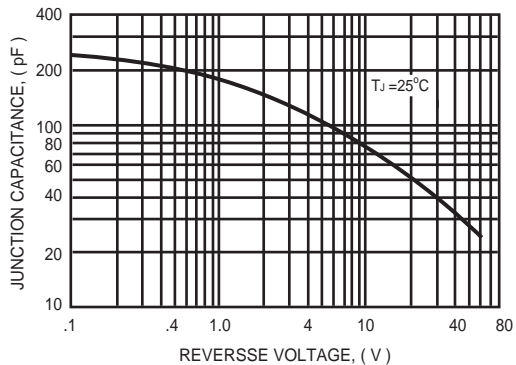


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

