CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE 20 - 40 Volts   CURRENT 350 mAmperes

Lead free devices

LL320PT
THRU
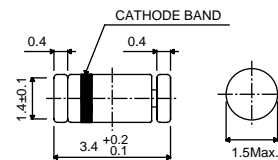**LL340PT**

APPLICATION
* Ultra high speed switching

FEATURE
* Small surface mounting type. (MINI-MELF)
* High speed. (T_{RR}=10nSec Typ.)
* Maximum total power disspation is 400mW.

CONSTRUCTION
* Silicon epitaxial planar

CIRCUIT

Mini-Melf

CATHODE BAND

0.4   0.4

1.4±0.1

3.4 +0.2 0.1

1.5Max.

Dimensions in millimeters   Mini-Melf

MAXIMUM RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	LL320PT	LL330PT	LL340PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	Volts
Forward Continuous Current	I_{FM}		350		mAmps
Peak Forward Surge Current 10 mS single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}		1.5		Amps
Typical Thermal Resistance (Note 1)	$R\theta_{JL}$		250		^{o}C / W
Total Capacitance (Note 2)	C_T		50		pF
Reverse Recovery Time at IF=IR=50mA , Irr=5.0mA	T_{rr}		10		nS
Operating Temperature Range	T_J		-55 to +125		^{o}C
Storage Temperature Range	T_{STG}		-55 to +150		^{o}C

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

CHARACTERISTICS		SYMBOL	LL340PT	LL330PT	LL320PT	UNITS
Maximum Instantaneous Forward Voltage	@ I_F = 20mA	V_F		370		mVolts
	@ I_F = 200mA			600		mVolts
Maximum Average Reverse Current at Rated DC Blocking Voltage		I_R		5.0		uAmps

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 0 volts.

2004-06

RATING CHARACTERISTIC CURVES (LL320PT THRU LL340PT)

FIG. 1 - FORWARD CHARACTERISTICS