CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

FAST SWITCHING DIODE

VOLTAGE 50 Volts CURRENT 200 mAmpere

LL4150PT

Lead free devices

APPLICATION

* Extreme fast switches.

FEATURE

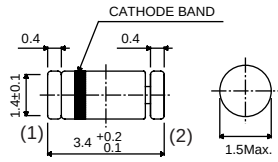
* Small surface mounting type. (MINI-MELF)
* High speed. (T_{RR}=4.0nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 500mW.

CONSTRUCTION

* Silicon epitaxial planar

CIRCUIT

Mini-Melf



Dimensions in millimeters

Mini-Melf

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

RATINGS	SYMBOL	LL4150PT	UNITS
Peak Reverse Voltage	V_{RM}	50	Volts
Reverse Voltage	V_R	50	Volts
Repetitive Peak Forward Current	I_F	200	mAmps
Average Forward Current	I_{FAV}	200	mAmps
Peak Forward Surge Current @ t=1.0uS	I_{FSM}	0.5	Amps
Power Dissipation at T_A=25°C	P_{tot}	500	mWatt
Maximum Capacitance (Note 1)	C_{tot}	4.0	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4.0	nS
Operating Temperature Range	T_J	175	°C
Storage Temperature Range	T_{STG}	-65 to +175	°C

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

CHARACTERISTICS		SYMBOL	LL4150PT	UNITS
Maximum Instantaneous Forward Voltage		V_F	1.0	Volts
Maximum Average Reverse Current at Reverse Voltage,V_R=50V	@ T_A = 25°C	I_R	0.1	uAmps
	@ T_J = 150°C		100	uAmps
Reverse Breakdown Voltage at Ir=5mA		V_{br}	35(min.)	Volts

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0 volt.
2. I_F=-I_R=10 to 200mA,to 0.1I_F

2007-04

RATING CHARACTERISTIC CURVES (LL4150PT)

FIG. 1 - FORWARD CHARACTERISTICS

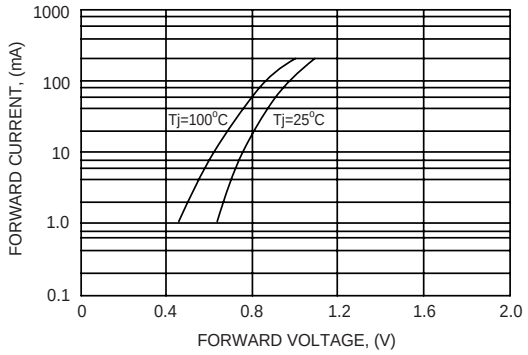


FIG. 2 - REVERSE CHARACTERISTICS

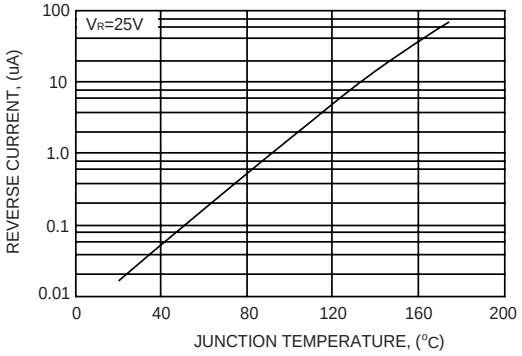


FIG. 3 - DIODE CAPACITANCE