



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volts CURRENT 0.5 Ampere

Lead free devices

CH451N1PT

APPLICATION

- * Low power rectification

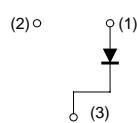
FEATURE

- * Small surface mounting type. (FBPT-923)
- * Ultra low IR. (VF=0.55V Typ. at 0.5A)
- * High reliability

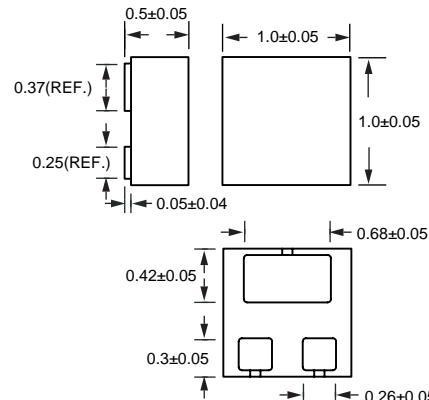
CONSTRUCTION

- * Silicon epitaxial planar

CIRCUIT



FBPT-923



Dimensions in millimeters

FBPT-923

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

RATINGS	SYMBOL	CH451N1PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VR _{RM}	30	Volts
Maximum RMS Voltage	V _{RMS}	21	Volts
Maximum DC Blocking Voltage	V _D C	30	Volts
Maximum Average Forward Rectified Current	I _O	0.5	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I _{FSM}	2.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C _J	15	pF
Maximum Operating Temperature Range	T _J	+125	°C
Storage Temperature Range	T _{STG}	-40 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH451N1PT	UNITS
Maximum Instantaneous Forward Voltage @ I _F (1)= 100mA	V _F (1)	0.385	Volts
	V _F (2)	0.55	Volts
Maximum Average Reverse Current at V _R = 5.0V @ T _A = 25°C	I _R (1)	10	uAmps
	I _R (2)	40	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 10.0 volts.

2. ESD sensitive product handling required.

2006-07

RATING CHARACTERISTIC CURVES (CH451N1PT)

FIG. 1 - FORWARD CHARACTERISTICS

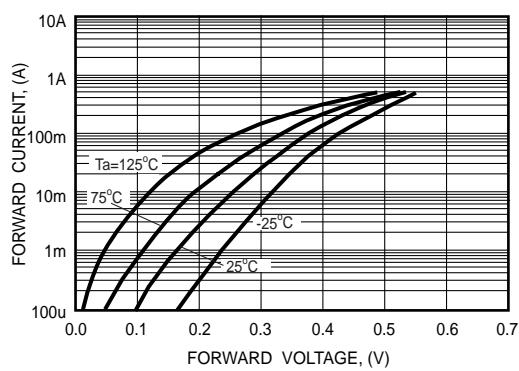


FIG. 2 - MAXIMUM REVERSE CHARACTERISTICS

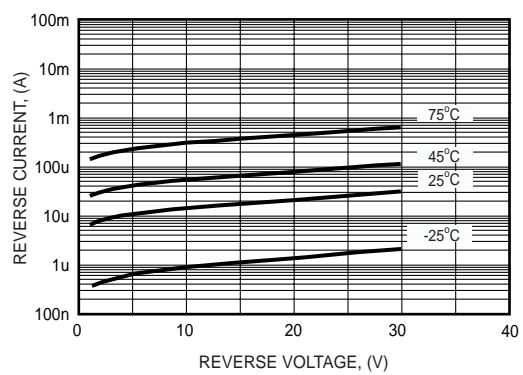


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

