CHENMKO ENTERPRISE CO.,LTD

CH0420LPT

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 20 Volts CURRENT 0.4 Ampere

Lead free devices

APPLICATION

* Low power rectification

FEATURE

* Small surface mounting type. (SOT-23)
* Two diode with common cathode for excellent.
* High reliability

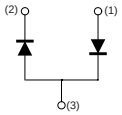
CONSTRUCTION

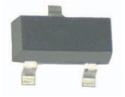
* Silicon epitaxial planar

MARKING

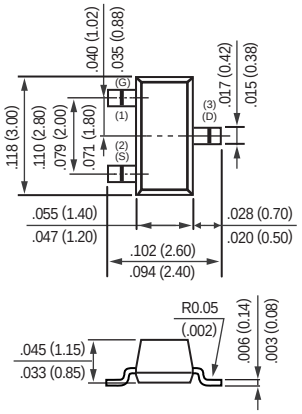
* B8

CIRCUIT





SOT-23



Dimensions in millimeters

SOT-23

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

RATINGS	SYMBOL	CH0420LPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	Volts
Maximum RMS Voltage	V_{RMS}	14	Volts
Maximum DC Blocking Voltage	V_{DC}	20	Volts
Maximum Average Forward Rectified Current	I_O	0.4	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	170	pF
Maximum Operating Temperature Range	T_J	+125	°C
Storage Temperature Range	T_{STG}	-55 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH0420LPT	UNITS
Maximum Instantaneous Forward Voltage at $I_F(1)$= 100mA	$V_F(1)$	0.31	Volts
Maximum Instantaneous Forward Voltage at $I_F(2)$= 500mA	$V_F(2)$	0.43	Volts
Maximum Average Reverse Current at V_R= 10V	$I_R(1)$	100	uAmps
Maximum Average Reverse Current at V_R= 20V	$I_R(2)$	250	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0 volts.
2. ESD sensitive product handling required.

2004-06

RATING CHARACTERISTIC CURVES (CH0420LPT)

FIG. 1 - FORWARD CURRENT DERATING CURVE

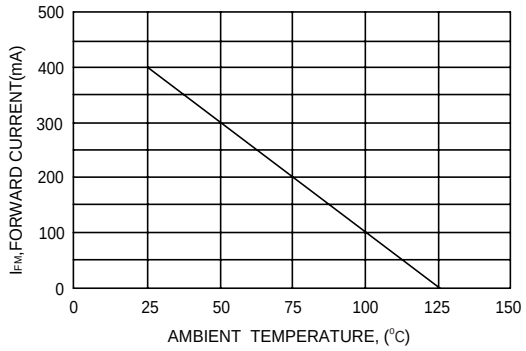


FIG. 2 - FORWARD CHARACTERISTICS

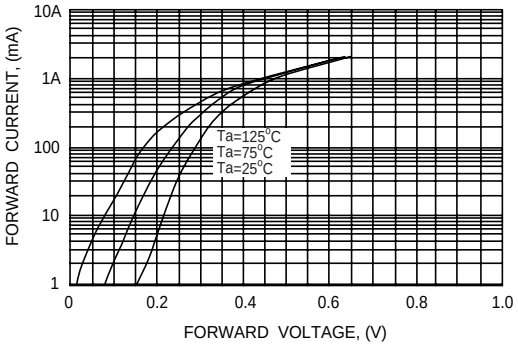


FIG. 3 - REVERSE CHARACTERISTICS

