CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
VOLTAGE 30 Volts CURRENT 0.1 Ampere

CH531UPT

Lead free devices

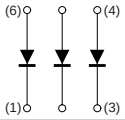
APPLICATION
* High speed switching

FEATURE
* Small surface mounting type. (SC-88/SOT-363)
* Low VF and low IR
* Three diodes in parallel installation

CONSTRUCTION
* Silicon epitaxial planar

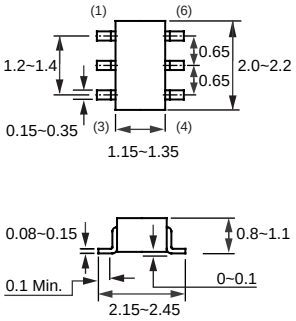
MARKING
* BZ

CIRCUIT





SC-88/SOT-363



Dimensions in millimeters

SC-88/SOT-363

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

RATINGS	SYMBOL	CH531UPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	Volts
Maximum RMS Voltage	V_{RMS}	21	Volts
Maximum DC Blocking Voltage	V_{DC}	30	Volts
Maximum Average Forward Rectified Current	I_O	0.1	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I_{FSM}	1.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	6.0	pF
Maximum Operating Temperature Range	T_J	+125	°C
Storage Temperature Range	T_{STG}	-40 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH531UPT	UNITS
Maximum Instantaneous Forward Voltage at I_F= 100mA	V_F	0.43	Volts
Maximum Average Reverse Current at V_R= 10V	I_R	30	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 10.0 volts.
2. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (CH531UPT)

FIG. 1 - FORWARD CHARACTERISTICS

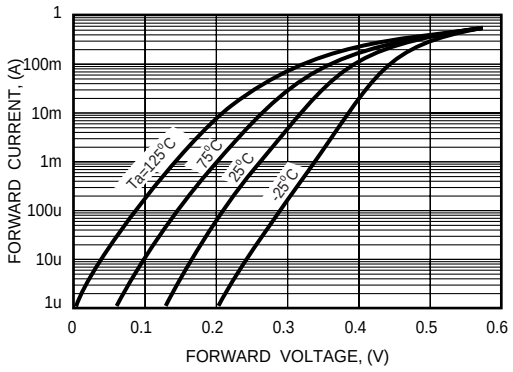


FIG. 2 - REVERSE CHARACTERISTICS

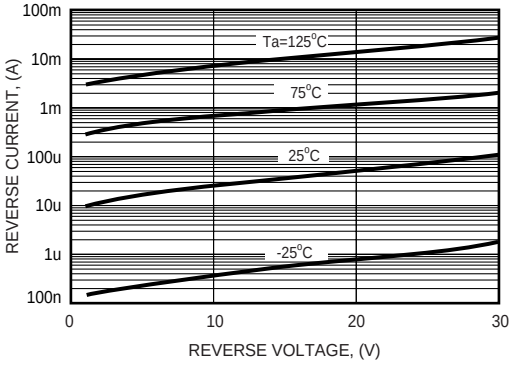


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

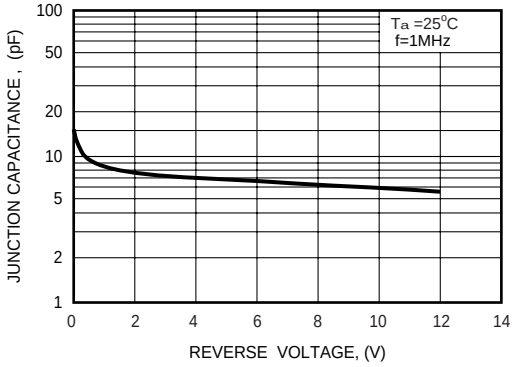


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

