CHENMKO ENTERPRISE CO.,LTD

CH320BGP
THRU
CH340BGP

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

Halogens free devices

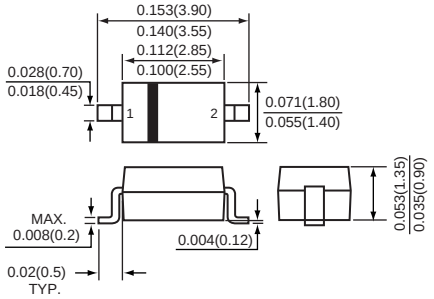
APPLICATION
* Ultra high speed switching

FEATURE
* Small surface mounting type. (SOD-123)
* High speed. (T_{RR}=10nSec Typ.)
* Maximum total power disspation is 400mW.

CONSTRUCTION
* Silicon epitaxial planar

CIRCUIT

SOD-123



Dimensions in inches and (millimeters)

SOD-123

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

RATINGS	SYMBOL	CH320BGP	CH330BGP	CH340BGP	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 1.0 S single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	1.5			Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	300			°C / W
Total Capacitance (Note 2)	C_T	5.0			pF
Reverse Recovery Time at IF=IR=200mA , Irr=20mA	T_{rr}	1.0			nS
Operating Temperature Range	T_J	-55 to +125			°C
Storage Temperature Range	T_{STG}	-55 to +125			°C

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

CHARACTERISTICS		SYMBOL	CH320BGP	CH330BGP	CH340BGP	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.

2012-05

RATING CHARACTERISTIC CURVES (CH320BGP THRU CH340BGP)

FIG. 1 - TYPICAL POWER DERATING CURVE

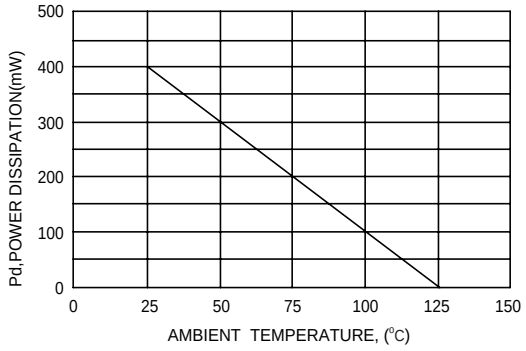


FIG. 2 - FORWARD CHARACTERISTICS

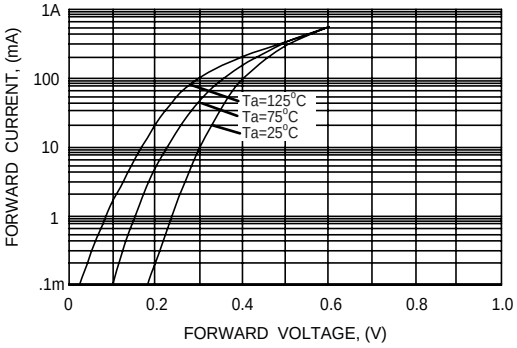


FIG. 3 - REVERSE CHARACTERISTICS