



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 40 Volts CURRENT 350 mAmperes

CH340BGP-A

APPLICATION

- * Ultra high speed switching

FEATURE

- * Small surface mounting type. (SOD-123)
- * High speed. ($T_{RR}=10\text{ns}$ Typ.)
- * Maximum total power dissipation is 400mW.

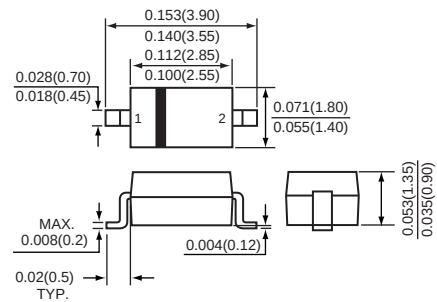
CONSTRUCTION

- * Silicon epitaxial planar

CIRCUIT



SOD-123



Dimensions in inches and (millimeters)

SOD-123

MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	CH340BGP-A	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum DC Blocking Voltage	V_{DC}	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	$^\circ\text{C} / \text{W}$
Total Capacitance (Note 2)	C_T	5.0	pF
Reverse Recovery Time at $I_F=I_R=200\text{mA}$, $I_{RR}=20\text{mA}$	T_{RR}	1.0	nS
Operating Temperature Range	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	CH340BGP-A	UNITS
Maximum Instantaneous Forward Voltage	@ $I_F = 20\text{mA}$	370	mVolts
	@ $I_F = 200\text{mA}$	600	mVolts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I_R	5.0	μAmps

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.

2012-08

Halogens free devices

RATING CHARACTERISTIC CURVES (CH340BGP-A)

FIG. 1 - TYPICAL POWER DERATING CURVE

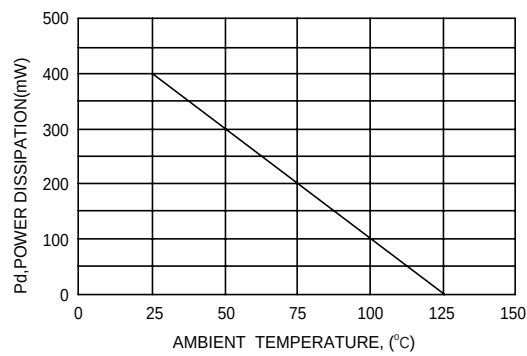


FIG. 2 - FORWARD CHARACTERISTICS

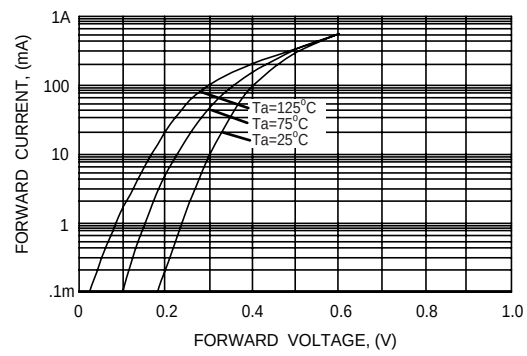
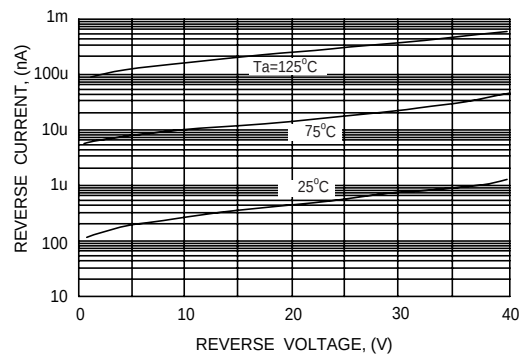
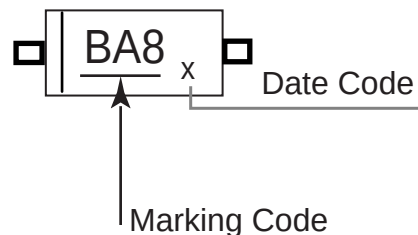


FIG. 3 - REVERSE CHARACTERISTICS



The Marking and Part No. for CH340BGP-A (SOD-123)

Marking:



Data Code Standard

Date Code	N	P	Q	R	S	T	U	V	W	X	Y	Z
2012Year	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

Date Code	A	B	C	D	E	F	G	H	J	K	L	M
2011Year	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

CUSTOMER :	APPROVED :	 CHENMKO LTD.
APPROVED :	CHECKED :	
CHECKED :	DRAWN :	DRAWING No. :