CHENMKO ENTERPRISE CO.,LTD

BAT54CGP-A

SURFACE MOUNT

SCHOTTKY DIODE

VOLTAGE 30 Volts CURRENT 0.2 Ampere

Halogens free devices

APPLICATION

* Ultra high speed switching

FEATURE

* Small surface mounting type. (SOT-23)
* High speed. (T_{RR}=2.5nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 230mW.
* Peak forward current is 300mA.

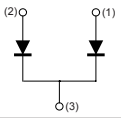
CONSTRUCTION

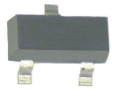
* Silicon epitaxial planar

MARKING

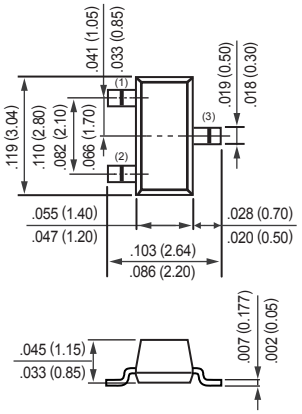
* KL3

CIRCUIT





SOT-23



Dimensions in millimeters

SOT-23

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

RATINGS	SYMBOL	BAT54CGP-A	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	0.2	Amps
Peak Forward Surge Current at 1Sec.	I_{FSM}	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	10	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	5.0	nSec
Maximum Operating Temperature Range	T_J	+150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	BAT54CGP-A	UNITS
Maximum Instantaneous Forward Voltage at I_F= 100mA	V_F	1.0	Volts
Maximum Average Reverse Current at V_R= 25V	I_R	2.0	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 1.0 volts.
2. Measured at applied froward current of 10mA and reverse current of 10mA.
3. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (BAT54CGP-A)

FIG. 1 - FORWARD CHARACTERISTICS

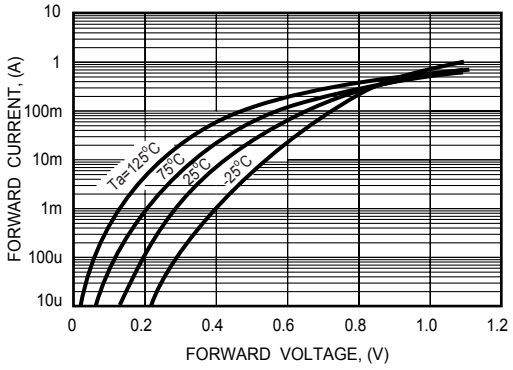


FIG. 2 - REVERSE CHARACTERISTICS

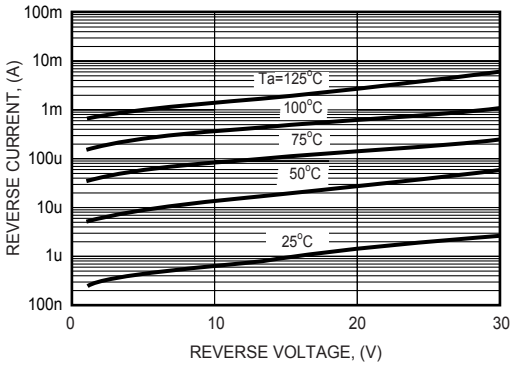


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

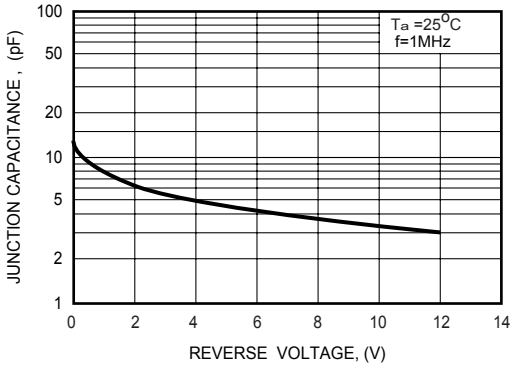
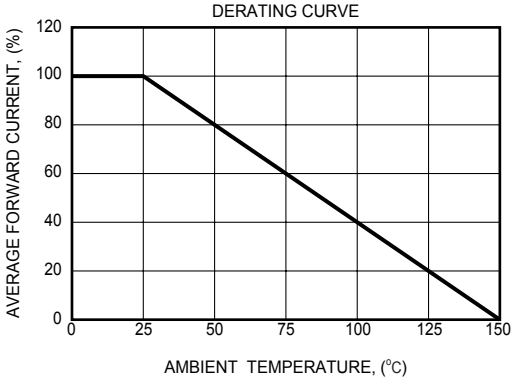


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE



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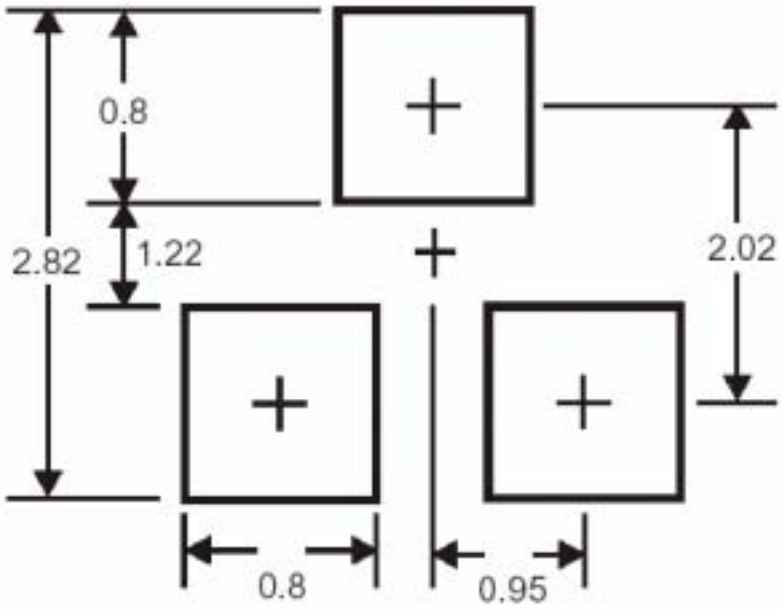
SURFACE MOUNT

RECOMMENDED FOOT PRINT

all dimensions in mm

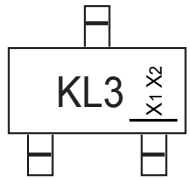
SOT-23

SOT-23



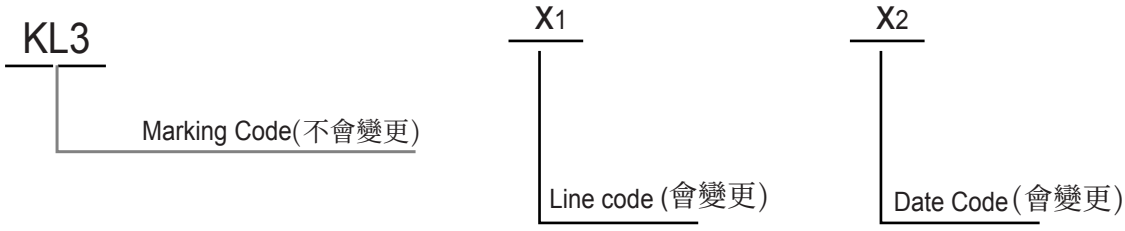
A: The Marking and Part No. for BAT54CGP-A (SOT-23)

Marking:



* Laser mark for marking code and cathode band

Part No.:



Date Code Standard (二年1個週期)

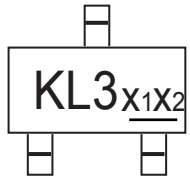
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2013Year	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

Date Code	E	F	H	J	K	L	N	P	U	X	Y	Z
2014Year	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

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

B: The Marking and Part No. for BAT54CGP-A (SOT-23)

Marking:



* Laser mark for marking code and cathode band

Part No.:

KL3 — Marking Code (不會變更)

X1 — Date Code (會變更)

X2 — Line code (會變更)

X2 Production line code: (會變更)

X2:" "沒有任何記號表第一條生產線
X2:"2"表第二條生產線
X2:"3"表第三條生產線

Date Code Standard (二年1個週期)

Date Code	A	B	C	D	E	F	G	H	J	K	L	M
2013Year	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

Date Code	N	P	Q	R	S	T	U	V	W	X	Y	Z
2014Year	JAN.	FEB.	MAR	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

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