

CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY DIODE

VOLTAGE 40 Volts CURRENT 0.2 Ampere

BAS40CPT

APPLICATION

* Ultra high speed switching

FEATURE

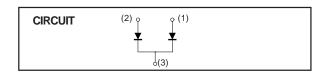
- * Small surface mounting type. (SOT-23)
- * High speed. (TRR=2.5nSec Typ.)
- * Suitable for high packing density.
- * Maximum total power disspation is 200mW.
- * Peak forward current is 300mA.

CONSTRUCTION

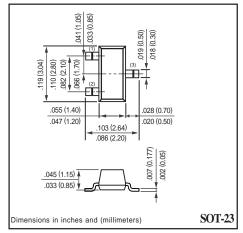
* Silicon epitaxial planar

MARKING

* BC







RATINGS	SYMBOL	BAS40CPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	40	Volts
Maximum RMS Voltage	VRMS	28	Volts
Maximum DC Blocking Voltage	VDC	40	Volts
Maximum Average Forward Rectified Current	lo	0.2	Amps
Peak Forward Surge Current at 1Sec.	IFSM	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	5.0	pF
Maximum Reverse Recovery Time (Note 2)	TRR	5.0	nSec
Maximum Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтс	-65 to +150	°C

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

CHARACTERISTICS		SYMBOL	BAS40CPT	UNITS
Maximum Instantaneous Forward Voltage	@IF= 1.0mA	VF	380	mVolts
	@IF= 40mA		1000	IIIVOIIS
Maximum Average Reverse Current at VR= 30V		lR	200	nAmps

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 0.0 volts.

2. Measured at applied froward current of 10mA and reverse current of 10mA.

3. ESD sensitive product handling required.

2002-9

