



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

VOLTAGE 45 Volts CURRENT 0.03 Ampere

CH706D-40GP

APPLICATION

- * General purpose detection
- * High speed switching

FEATURE

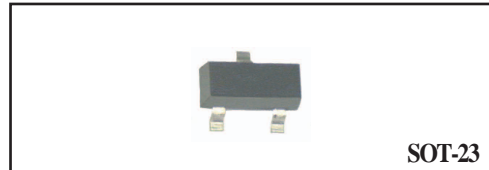
- * Small surface mounting dual element linear type. (SOT-23)
- * Low VF and low IR.
- * High reliability

CONSTRUCTION

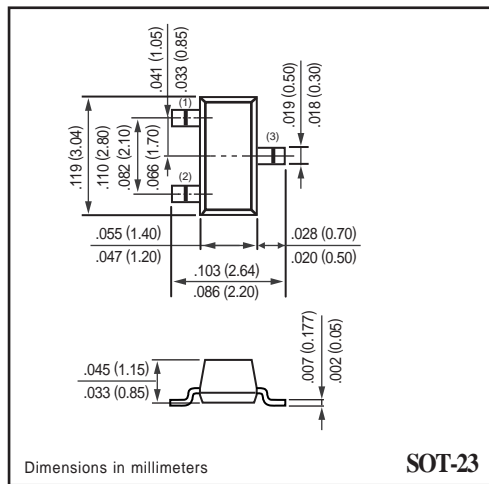
- * Silicon epitaxial planar

MARKING

- * LD4



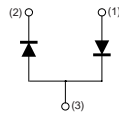
SOT-23



Dimensions in millimeters

SOT-23

CIRCUIT



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	CH706D-40GP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	45	Volts
Maximum RMS Voltage	VRMS	32	Volts
Maximum DC Blocking Voltage	VDC	40	Volts
Maximum Average Forward Rectified Current	IO	0.03	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	IFSM	0.2	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	2.0	pF
Maximum Operating Temperature Range	TJ	+125	°C
Storage Temperature Range	TSTG	-40 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH706D-40GP	UNITS
Maximum Instantaneous Forward Voltage at IF= 1mA	VF	0.37	Volts
Maximum Average Reverse Current at VR= 10V	IR	1.0	uAmps

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

RATING CHARACTERISTIC CURVES (CH706D-40GP)

FIG. 1 - FORWARD CHARACTERISTICS

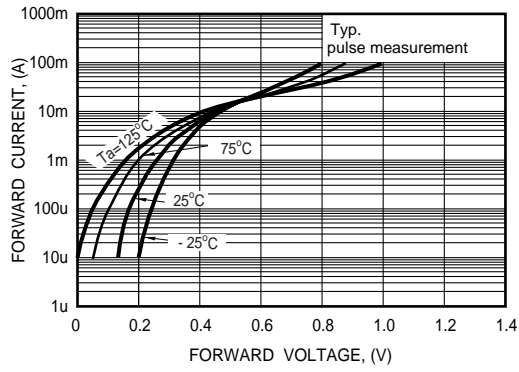


FIG. 2 - REVERSE CHARACTERISTICS

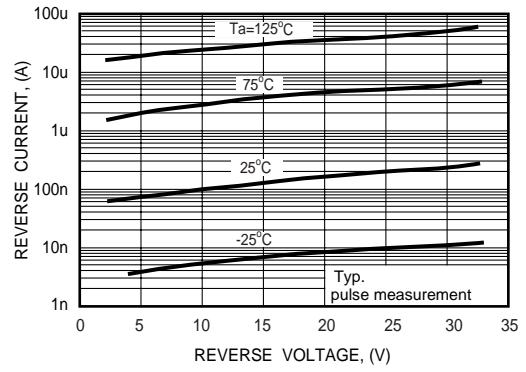


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

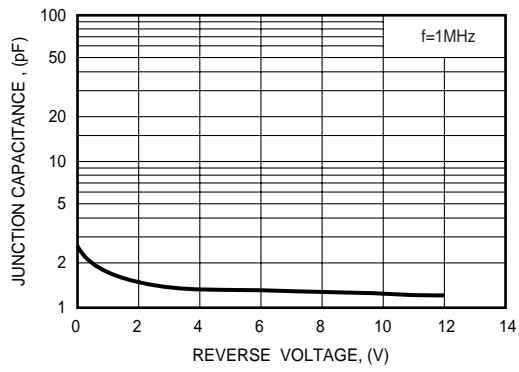


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

