



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 45 Volts CURRENT 0.03 Ampere

CH706D-40PT

APPLICATION

- * General purpose detection
- * High speed switching

FEATURE

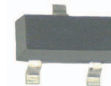
- * Small surface mounting dual element linear type. (SOT-23)
- * Low VF and low IR.
- * High reliability

CONSTRUCTION

- * Silicon epitaxial planar

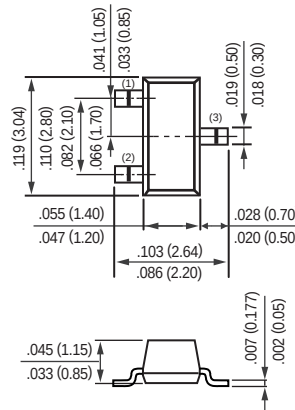
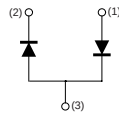
MARKING

- * LD4



SOT-23

CIRCUIT



Dimensions in inches and (millimeters)

SOT-23

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

RATINGS	SYMBOL	CH706D-40PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	45	Volts
Maximum RMS Voltage	V_{RMS}	32	Volts
Maximum DC Blocking Voltage	V_{DC}	40	Volts
Maximum Average Forward Rectified Current	I_O	0.03	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I_{FSM}	0.2	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	2.0	pF
Maximum Operating Temperature Range	T_J	+125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-40 to +125	$^{\circ}\text{C}$

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

CHARACTERISTICS	SYMBOL	CH706D-40PT	UNITS
Maximum Instantaneous Forward Voltage at $I_F = 1\text{mA}$	V_F	0.37	Volts
Maximum Average Reverse Current at $V_R = 10\text{V}$	I_R	1.0	μAmps

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

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RATING CHARACTERISTIC CURVES (CH706D-40PT)

FIG. 1 - FORWARD CHARACTERISTICS

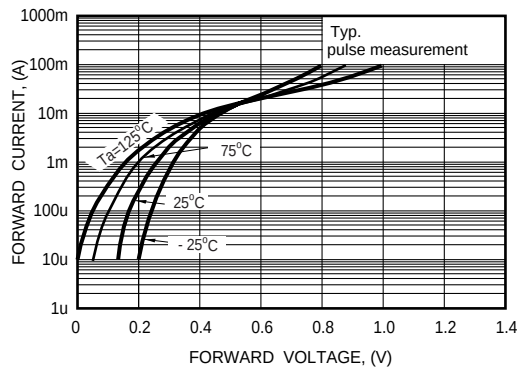


FIG. 2 - REVERSE CHARACTERISTICS

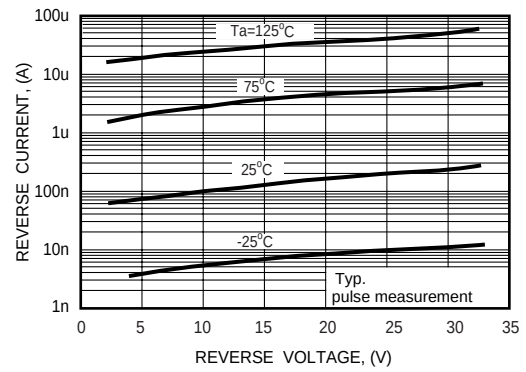


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

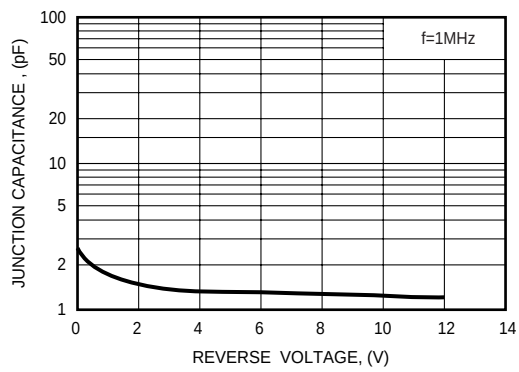


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

