



CHENMKO ENTERPRISE CO.,LTD

CH494DPT

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 40 Volts CURRENT 0.4 Ampere

Lead free devices

APPLICATION

- * Low power rectification

FEATURE

- * Small surface mounting type. (SOT-23)
- * Two diode with common cathode for excellent.
- * High reliability

CONSTRUCTION

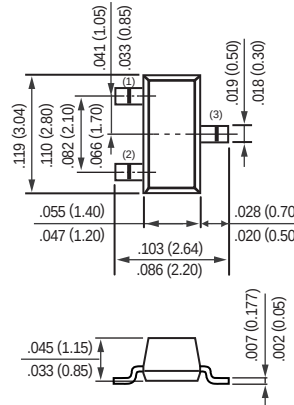
- * Silicon epitaxial planar

MARKING

- * 03F



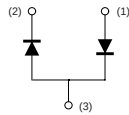
SOT-23



Dimensions in inches and (millimeters)

SOT-23

CIRCUIT



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

RATINGS	SYMBOL	CH494DPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum DC Blocking Voltage	V_{DC}	25	Volts
Maximum Average Forward Rectified Current	I_o	0.4	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I_{FSM}	2.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	20	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	CH494DPT	
Maximum Instantaneous Forward Voltage at $I_F(1)=10\text{mA}$	$V_F(1)$	0.30	Volts
Maximum Instantaneous Forward Voltage at $I_F(2)=200\text{mA}$	$V_F(2)$	0.50	Volts
Maximum Average Reverse Current at $V_R=25\text{V}$	I_R	70	μAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 10.0 volts.
2. ESD sensitive product handling required.

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RATING CHARACTERISTIC CURVES (CH494DPT)

FIG. 1 - FORWARD CHARACTERISTICS

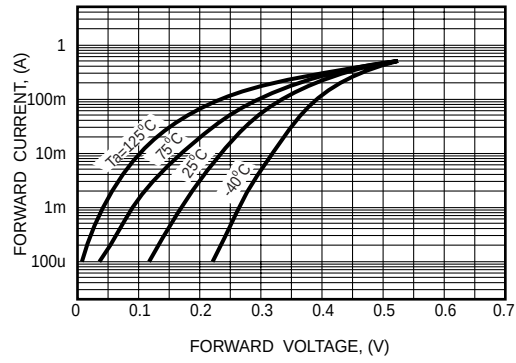


FIG. 2 - REVERSE CHARACTERISTICS

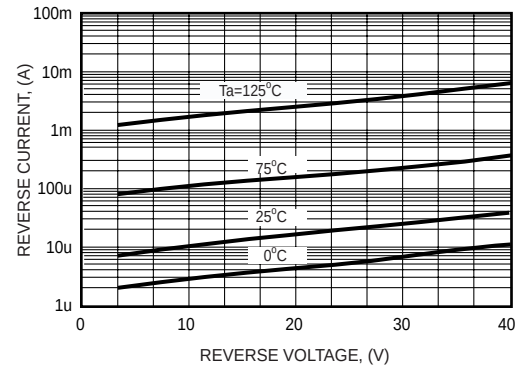


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

