



CHENMKO ENTERPRISE CO.,LTD

CH228KPT

Lead free devices

**SURFACE MOUNT
SWITCHING DIODE**

VOLTAGE 80 Volts CURRENT 0.1 Ampere

APPLICATION

- * Bias circuit.
- * Protection circuits.

FEATURE

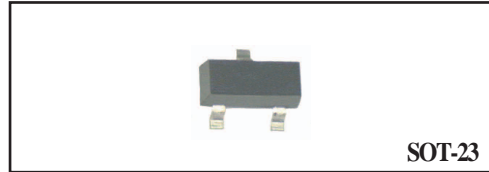
- * Small surface mounting type. (SOT-23)
- * Two diode elements are connected in series (VFX2) per circuit.
- * Maximum total power dissipation is 200mW.
- * Peak forward current is 200mA.

CONSTRUCTION

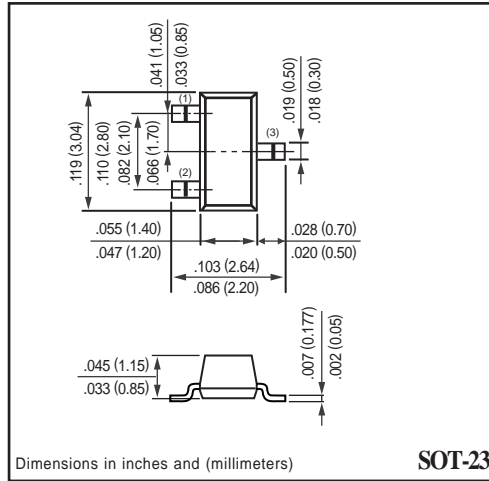
- * Silicon epitaxial planar

MARKING

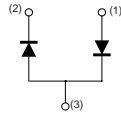
- * JE



SOT-23



CIRCUIT



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

| RATINGS | SYMBOL | CH228KPT | UNITS |
|--|--------|-------------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 80 | Volts |
| Maximum RMS Voltage | VRMS | 56 | Volts |
| Maximum DC Blocking Voltage | VDC | 80 | Volts |
| Maximum Average Forward Rectified Current | IO | 0.1 | Amps |
| Peak Forward Surge Current at 1 uSec | IFSM | 0.3 | Amps |
| Typical Junction Capacitance between Terminal (Note 1) | CJ | 2.0 | pF |
| Maximum Operating Temperature Range | TJ | +150 | $^{\circ}\text{C}$ |
| Storage Temperature Range | TSTG | -55 to +150 | $^{\circ}\text{C}$ |

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

| CHARACTERISTICS | SYMBOL | CH228KPT | UNITS |
|---|----------------|----------|-------|
| Maximum Instantaneous Forward Voltage at $I_F = 100\text{mA}$ | V _F | 1.20 | Volts |
| Maximum Average Reverse Current at $V_R = 80\text{V}$ | I _R | 0.1 | uAmps |

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 6.0 volts.
2. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (CH228KPT)

FIG. 1 - FORWARD CHARACTERISTICS

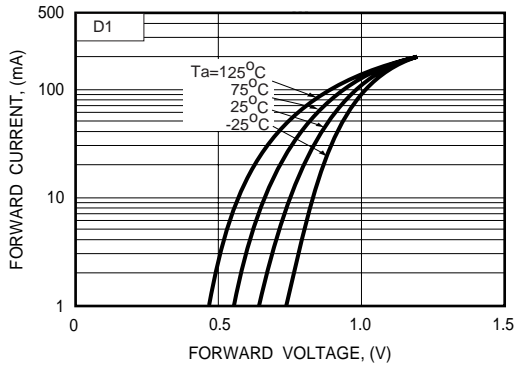


FIG. 2 - FORWARD CHARACTERISTICS

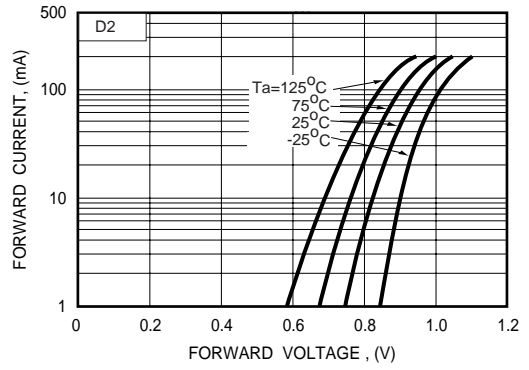


FIG. 3 - REVERSE CHARACTERISTICS

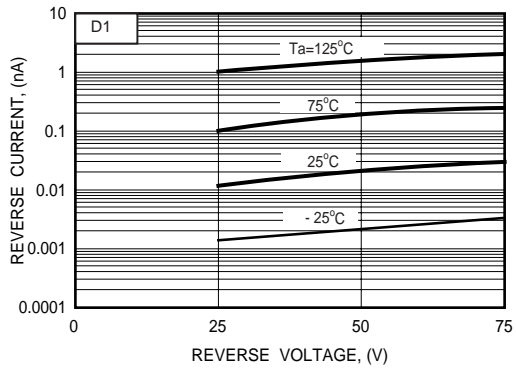


FIG. 4 - REVERSE CHARACTERISTICS

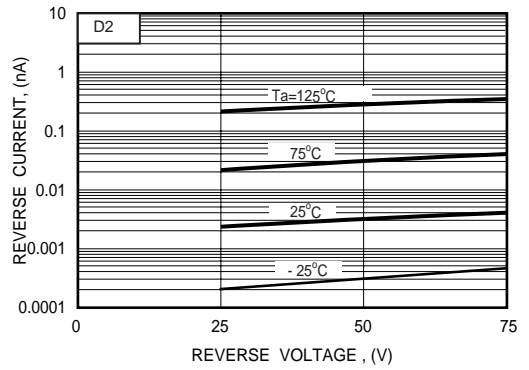


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

