



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

GENERAL PURPOSE PIN DIODE

VOLTAGE 50 Volts CURRENT 0.05 Ampere

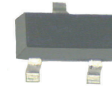
CHPD50CGP

APPLICATION

* General RF applications.

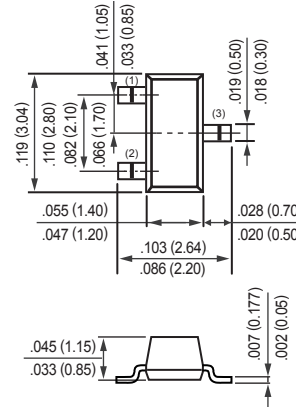
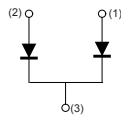
FEATURE

- * Small surface mounting type. (SOT-23)
- * Low diode capacitance.
- * Low diode forward resistance.



SOT-23

CIRCUIT



SOT-23

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

| RATINGS | SYMBOL | CHPD50CGP | UNITS |
|------------------------------|------------------|-------------|-------|
| Continuous Reverse Voltage | V _R | 50 | Volts |
| Continous Forward Current | I _F | 50 | mAmps |
| Power Dissipation at Ta=90°C | P _D | 250 | mWatt |
| Junction Temperature Range | T _J | -65 to +150 | °C |
| Storage Temperature Range | T _{STG} | -65 to +150 | °C |

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

| PARAMETER | SYMBOL | CONDITIONS | Min. | Typ. | Max. | UNITS |
|----------------------------|----------------|----------------------------------|------|------|------|-------|
| Continuous Reverse Voltage | V _R | I _R =10uA | 50 | | | Volts |
| Forward Voltage | V _F | I _F =50mA | | | 1.1 | Volts |
| Reverse Current | I _R | V _R =50V | | | 0.1 | uAmps |
| Diode Capacitance | C _O | V _R =0V , f=1MHz | | 0.45 | | pF |
| | | V _R =1V , f=1MHz | | | 0.6 | |
| | | V _R =5V , f=1MHz | | | 0.5 | |
| Diode Forward Resistance | R _D | I _F =0.5mA , f=100MHz | | | 40 | ohm |
| | | I _F =1mA , f=100MHz | | | 25 | |
| | | I _F =10mA , f=100MHz | | | 5 | |

RATING CHARACTERISTIC CURVES (CHPD50CGP)

Typical Electrical Characteristics

Figure 1. Forward Resistance vs Forward Current

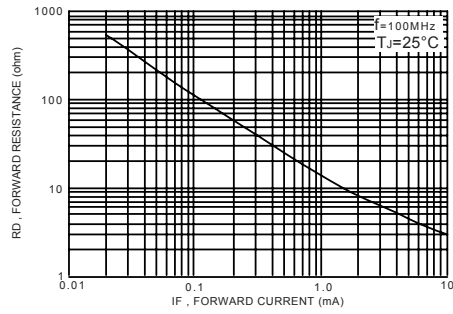


Figure 2. Diode Capacitance vs Reverse Voltage

