



CHENMKO ENTERPRISE CO.,LTD

CH451FPT

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

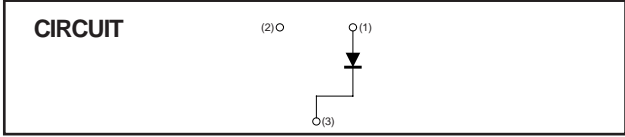
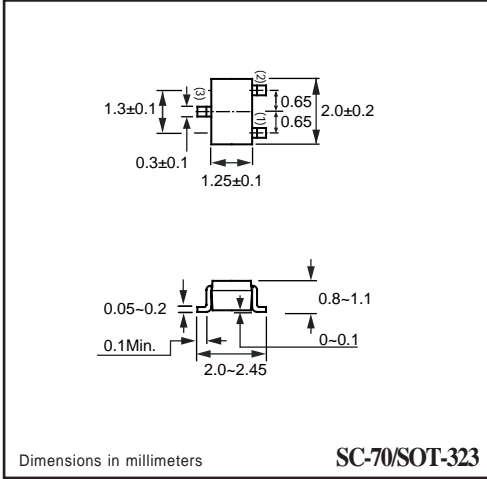
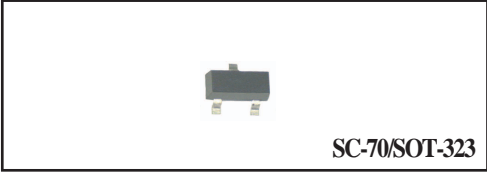
VOLTAGE 40 Volts CURRENT 0.1 Ampere

APPLICATION
* Low power rectification

FEATURE
* Small surface mounting type. (SC-70/SOT-323)
* Low VF. (VF=0.45V Typ. at 100mA)
* High reliability

CONSTRUCTION
* Silicon epitaxial planar

MARKING
* 3C



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

| RATINGS | SYMBOL | CH451FPT | UNITS |
|--------------------------------------------------------------|--------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 40 | Volts |
| Maximum RMS Voltage | VRMS | 28 | Volts |
| Maximum DC Blocking Voltage | VDC | 40 | Volts |
| Maximum Average Forward Rectified Current | Io | 0.1 | Amps |
| Peak Forward Surge Current at 8.3 mSec single half sine-wave | IFSM | 1.0 | Amps |
| Typical Junction Capacitance between Terminal (Note 1) | CJ | 6.0 | 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 | CH451FPT | UNITS |
|-------------------------------------------------------|--------|----------|-------|
| Maximum Instantaneous Forward Voltage at If(1)= 10mA | VF(1) | 0.34 | Volts |
| Maximum Instantaneous Forward Voltage at If(2)= 100mA | VF(2) | 0.55 | Volts |
| Maximum Average Reverse Current at Vr= 10V | IR | 30 | uAmps |

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

RATING CHARACTERISTIC CURVES (CH451FPT)

FIG. 1 - FORWARD CHARACTERISTICS

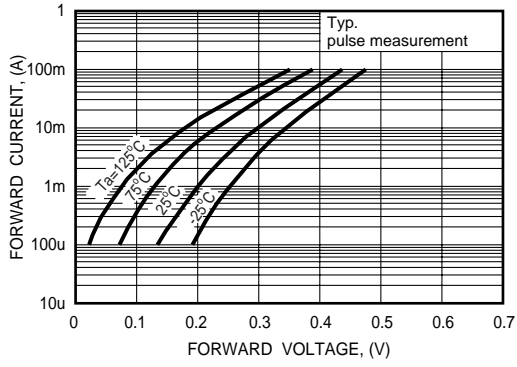


FIG. 2 - REVERSE CHARACTERISTICS

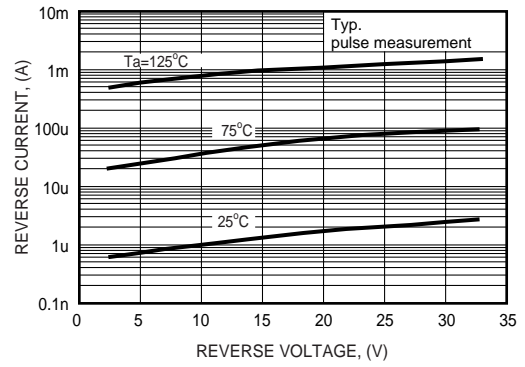


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

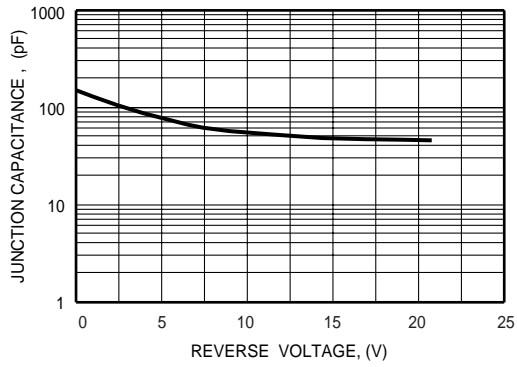


FIG. 4 - FORWARD POWER DISSIPATION CHARACTERISTICS

