CHENMKO ENTERPRISE CO.,LTD

CHP222M1GP

Halogens free devices

SURFACE MOUNT
SWITCHING DIODE
VOLTAGE 80 Volts CURRENT 0.1 Ampere

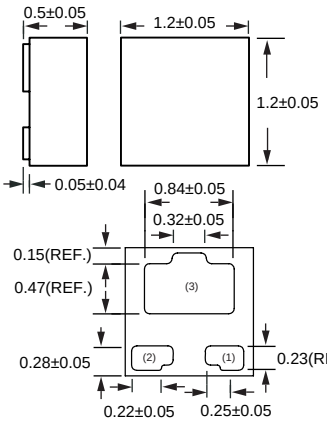
APPLICATION
* Ultra high speed switching

FEATURE
* Small surface mounting type. (FBPT-723)
* High speed. (T_{RR}=1.5nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 150mW.
* Peak forward current is 300mA.

CONSTRUCTION
* Silicon epitaxial planar

marking
* 21

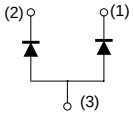
FBPT-723



Dimensions in millimeters

FBPT-723

CIRCUIT



MAXIMUM RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	CHP222M1GP	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	80	Volts
Maximum RMS Voltage	V_{RMS}	56	Volts
Maximum DC Blocking Voltage	V_{DC}	80	Volts
Maximum Average Forward Rectified Current	I_O	0.1	Amps
Peak Forward Surge Current at 1uSec.	I_{FSM}	4.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	3.5	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4.0	nSec
Maximum Operating Temperature Range	T_J	+150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	CHP222M1GP	UNITS
Maximum Instantaneous Forward Voltage at I_F= 100mA	V_F	1.20	Volts
Maximum Average Reverse Current at V_R= 70V	I_R	0.1	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 6.0 volts.
2. Measured at applied froward current of 5mA and reverse voltage of 6.0 volts.
3. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (CHP222M1GP)

FIG. 1 - TYPICAL FORWARD CURRENT DERAING CURVE

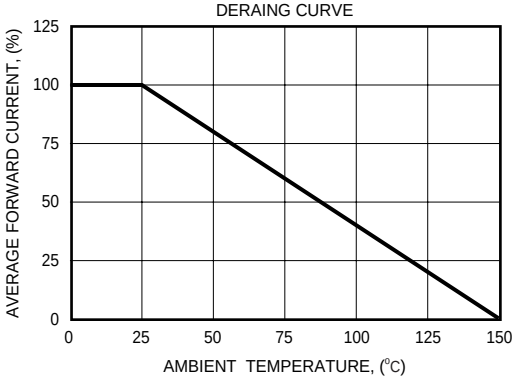


FIG. 2 - FORWARD CHARACTERISTICS

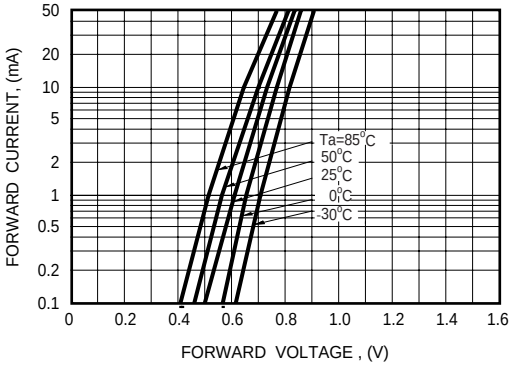


FIG. 3 - REVERSE CHARACTERISTICS

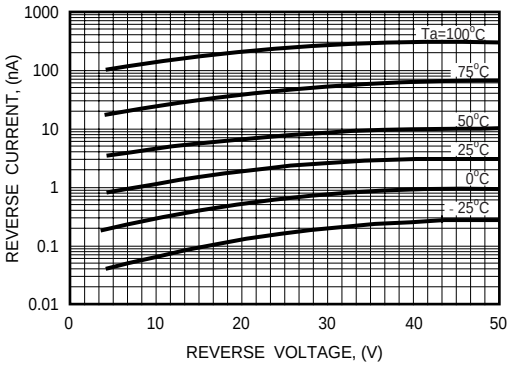


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

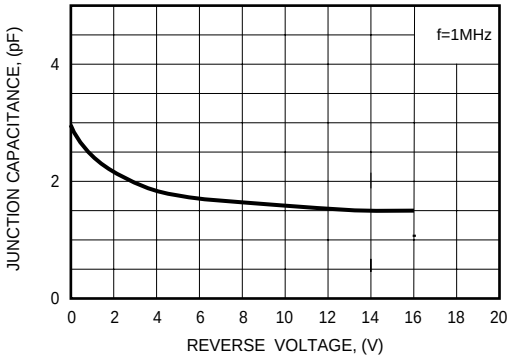


FIG. 5 - REVERSE RECOVERY TIME

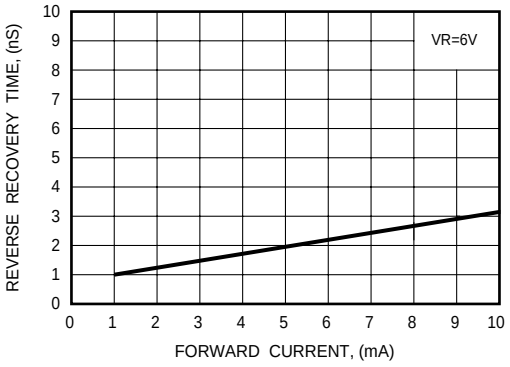


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT