



CHENMKO ENTERPRISE CO.,LTD

CH402H-40PT

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 40 Volts CURRENT 0.02 Ampere

Lead free devices

APPLICATION

* Low barrier diode for detectors up to GHz frequencies

FEATURE

- * Small surface mounting type. (SOT-143)
- * Extremely low forward voltage.
- * A composite component and is ideal for reducing the number of components used.
- * High reliability

CONSTRUCTION

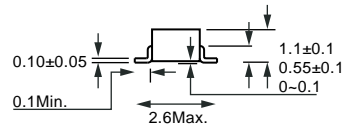
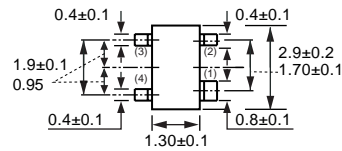
* Silicon epitaxial planar

MARKING

* H1



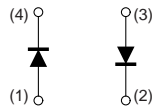
SOT-143



Dimensions in millimeters

SOT-143

CIRCUIT



RATINGS	SYMBOL	CH402H-40PT			UNITS
		MIN.	TYP.	MAX.	
Maximum Recurrent Peak Reverse Voltage	VRRM	-	-	40	Volts
Maximum Average Forward Rectified Current	Io	-	-	20	mAmps
Total Power Dissipation, Ts< 85 °C	PTOT	-	-	100	mW
Typical Series Inductance	Ls	-	2.0	-	nH
Typical Case Capacitance	Cc	-	0.1	-	pF
Typical Junction Capacitance between Terminal (Note 1)	CJ	-	0.35	0.6	pF
Typical Differential Resistance (Note 2)	Ro	-	225	-	kΩ
Operating and Storage Temperature Range	TJ,TSTG	-55	-	+150	°C

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

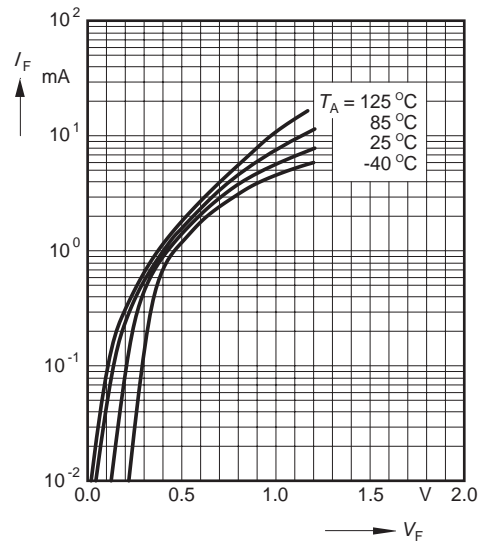
CHARACTERISTICS	SYMBOL	CH402H-40PT			UNITS
		MIN.	TYP.	MAX.	
Maximum Instantaneous Forward Voltage at If= 2mA	VF	-	0.58	1.00	Volts
Maximum Average Reverse Current at VR= 40V	IR	-	-	10	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0 volt.
 2. Measured at 10 KHz and applied reverse voltage of 0 volt.
 2. ESD sensitive product handling required.

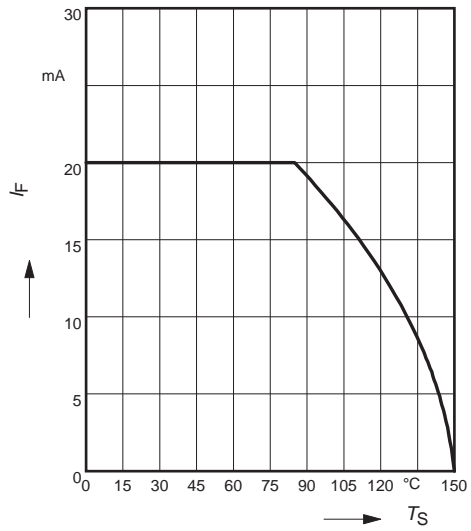
RATING CHARACTERISTIC CURVES (CH402H-40PT)

Forward current $I_F = f(V_F)$

$T_A = \text{Parameter}$

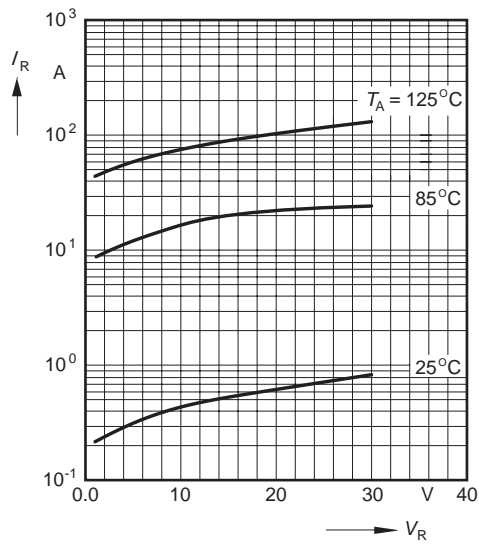


Forward current $I_F = f(T_S)$



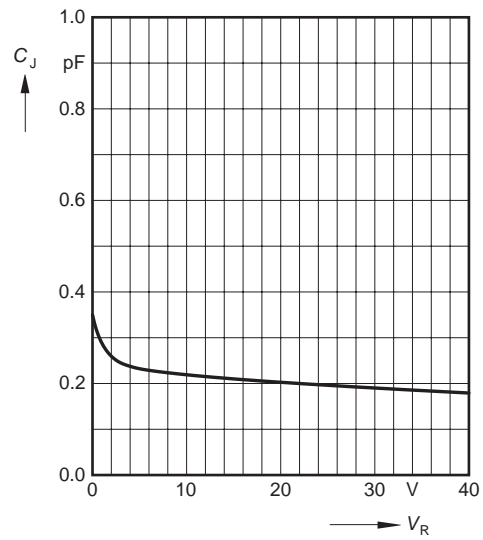
Reverse current $I_R = f(V_R)$

$T_A = \text{Parameter}$



Diode capacitance $C_J = f(V_R)$

$f = 1\text{MHz}$



RATING CHARACTERISTIC CURVES (CH402H-40PT)

Rectifier voltage $V_o = f(V_i)$

$f = 900\text{MHz}$

