



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 40 Volts CURRENT 0.2 Ampere

CH40N4-40GP

FEATURE

- * Extremely small surface mounting type. (DFN1006)
- * $I_o=200mA$ guaranteed despite size

CONSTRUCTION

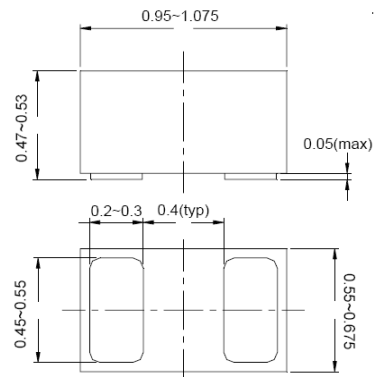
- * Silicon epitaxial planar

MARKING

- * R

DFN1006

CIRCUIT



Dimensions in millimeters

DFN1006

RATINGS	SYMBOL	CH40N4-40GP	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum DC Blocking Voltage	V_{DC}	40	Volts
Maximum Average Forward Rectified Current	I_o	0.2	Amps
Peak Forward Surge Current at 1Sec.	I_{FSM}	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	2.3	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	5.0	nSec
Maximum Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

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

CHARACTERISTICS		SYMBOL	CH40N4-40GP	UNITS
Maximum Instantaneous Forward Voltage	@ $I_F = 1.0mA$	V_F	380	mVolts
	@ $I_F = 40mA$		1000	
Maximum Average Reverse Current at $V_R = 30V$		I_R	200	nAmps

- NOTES : 1. Measured at 1.0 MH z and applied reverse voltage of 0.0 volts.
2. Measured at applied forward current of 10mA and reverse current of 10mA.
3. ESD sensitive product handling required.

2015-07

RATING CHARACTERISTIC CURVES (CH40N4-40GP)

Electrical characteristic curves ($T_A=25^\circ\text{C}$ unless otherwise specified)

