



# CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

## SURFACE MOUNT

### SCHOTTKY BARRIER DIODE

VOLTAGE 40 Volts CURRENT 0.5 Ampere

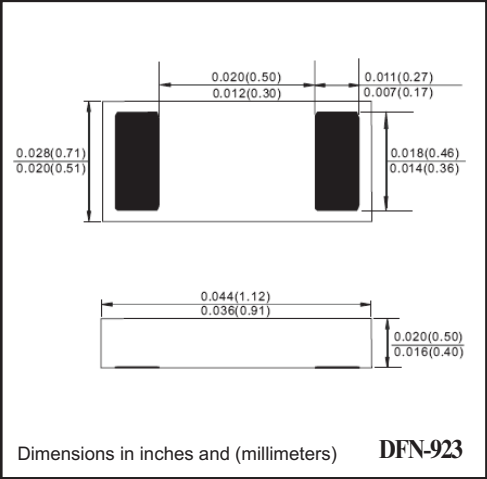
**CHSG540JGP**

**APPLICATION**  
 \* For low-loss, fast-recovery, meter protection, bias isolation and clamping applications

**FEATURE**  
 \* Small surface mounting type. (DFN-923)  
 \* Medium current Schottky rectifier diode

**CONSTRUCTION**  
 \* Silicon epitaxial planar

**DFN-923**



Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

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

RATINGS	SYMBOL	CHSG540JGP	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	0.5	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	5	Amps
Operating and Storage Temperature Range	TJ,TSTG	-65 to +125	°C

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

CHARACTERISTICS		CHSG540JGP	UNITS
Maximum Instantaneous Forward Voltage at IF=0.5A	VF	0.55	Volts
Maximum Average Reverse Current at VR=40V	@ TA = 25°C IR	0.1	mAmps

## RATING CHARACTERISTIC CURVES ( CHSG540JGP )

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

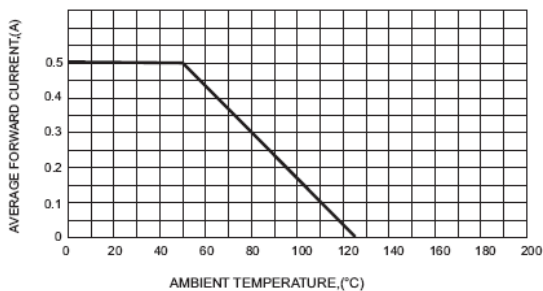


FIG.2-TYPICAL FORWARD CHARACTERISTICS

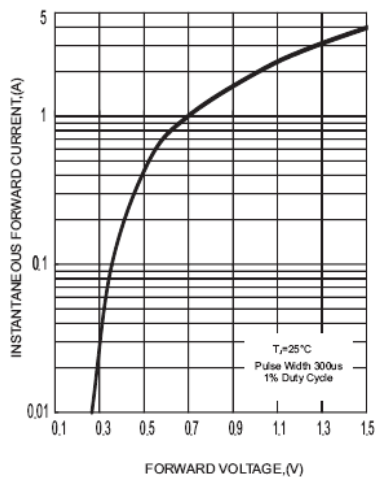


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

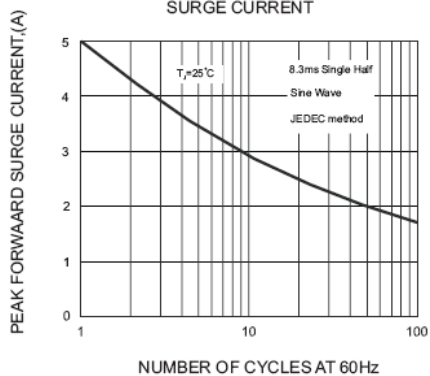


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

