

# CHENMKO ENTERPRISE CO.,LTD

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 40 Volts CURRENT 6 Amperes

S06P20GP **THRU** S06P40GP

#### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal Silicon junction, majority carrier conduction Low power loss, high efficiency High current capability, low forward voltage drop Guardring for overvoltage protection

- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering in accordance with CECC 802 / Reflow guaranteed

#### **MECHANICAL DATA**

Case: JEDEC DPAK molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

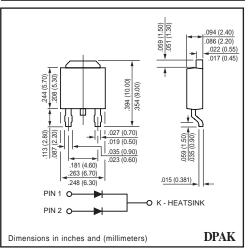
Weight: 1.7 grams ( Approximately )

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.





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

RATINGS	SYMBOL	S06P20GP	S06P30GP	S06P40GP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts
Maximum RMS Voltage	VRMS	14	21	28	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	Volts
Maximum Average Forward Rectified Current	lo	6.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150			
Typical thermal resistance per leg ( NOTE 1 )	R θJC	5.0			
Operating and Storage Temperature Range	TJ, TSTG	-40 to +125			°C

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

CHARACTERISTICS		SYMBOL	S06P20GP	S06P30GP	S06P40GP	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC		VF	0.55			Volts
Maximum instantaneous reverse current at	TC = 25°C		1.0			mAmps
rated DC blocking voltage per leg ( NOTE 2 )	Tc = 100°C	lR	50			mAmps

NOTES: 1. Thermal resistance from junction to case per leg

2. Pulse test: 300 us pulse width, 1% duty cycle

2002-5

## RATING CHARACTERISTIC CURVES ( S06P20GP THRU S06P40GP )

