

CHENMKO ENTERPRISE CO.,LTD

SCHOTTKY BARRIER RECTIFIER

S20D30GP **THRU** S20D60GP

VOLTAGE RANGE 30 - 60 Volts CURRENT 20 Amperes

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 TO-247 molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

Weight: 5.6 grams (Approximately)

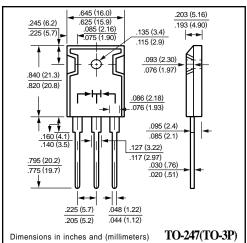
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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)

TO-247(TO-3P)	
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RATINGS	SYMBOL	S20D30GP	S20D35GP	S20D40GP	S20D45GP	S20D50GP	S20D60GP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30	35	40	45	50	60	Volts
Maximum RMS Voltage	VRMS	21	24	28	31	35	42	Volts
Maximum DC Blocking Voltage	VDC	30	35	40	45	50	60	Volts
Maximum Average Forward Rectified Current	lo	20.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200						Amps
Typical thermal resistance per leg (NOTE 1)	R ∂JC	2.2					°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-60 to +125						°C

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

ELECTRICAL CHARACTERISTICS (M. TA = 20 C GRICOS CARCTURES TOLICA)										
	CHARACTERISTICS Maximum Instantaneous Forward Voltage at 10.0 A DC		SYMBOL	S20D30GP	S20D35GP	S20D40GP	S20D45GP	S20D50GP	S20D60GP	UNITS
			VF	0.55 0.65				Volts		
	Maximum instantaneous reverse current at	Tc = 25°C		5.0						mAmps
	rated DC blocking voltage per leg (NOTE 2)	Tc = 100°C	lR IR	50						mAmps

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

2. Pulse test: 300 us pulse width, 1% duty cycle
3. Suffix " C " = Common Cathod, Suffix " A " = Common Anode, Suffix " D " = Double.

2008-01

RATING CHARACTERISTIC CURVES (S20D30GP THRU S20D60GP)

