

CHENMKO ENTERPRISE CO.,LTD

S20S30PT **THRU** S20S45PT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 30 - 45 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 D2PAK molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

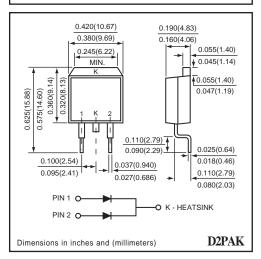
Weight: 0.08 ounces, 2.24 grams

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%.

D2PAK



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

RATINGS	SYMBOL	S20S30PT	S20S35PT	S20S40PT	S20S45PT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	30	35	40	45	Volts
Maximum RMS Voltage	VRMS	21	24	28	31	Volts
Maximum DC Blocking Voltage	VDC	30	35	40	45	Volts
Maximum Average Forward Rectified Current	lo	20				
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 ∂JC	2.0				
Operating and Storage Temperature Range	TJ, TSTG	-65 to +125				

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

CHARACTERISTICS		SYMBOL	S20S30PT	S20S35PT	S20S40PT	S20S45PT	UNITS
Maximum Instantaneous Forward Voltage at 10 A DC		VF	0.55				Volts
Maximum instantaneous reverse current at	TC = 25°C	1-	1.0				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

2001-6

RATING CHARACTERISTIC CURVES (\$20\$30PT THRU \$20\$45PT)

