

CHENMKO ENTERPRISE CO., LTD

S30S20PT THRU S30S60PT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 60 Volts CURRENT 30 Amperes

FEATURES

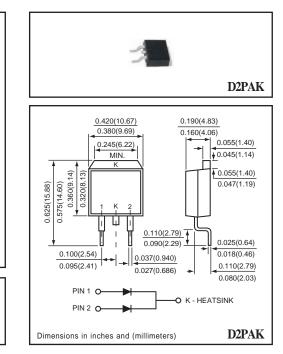
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Metal Silicon junction, majority carrier conduction Low power loss,high efficiency High current capability, low forward voltage drop
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters,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



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

RATINGS	SYMBOL	S30S20PT	S30S30PT	S30S35PT	S30S40PT	S30S45PT	S30S50PT	S30S60PT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	35	40	45	50	60	Volts
Maximum RMS Voltage	Vrms	14	21	24	28	31	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	35	40	45	50	60	Volts
Maximum Average Forward Rectified Current	lo	30						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 θJC	1.5						°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-65 to +125 -65 to +150					+150	°C	

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

CHARACTERISTICS		SYMBOL	S30S20PT S30S30PT	S30S35PT	S30S40PT	S30S45PT	S30S50PT	S30S60PT	UNITS
Maximum Instantaneous Forward Voltage at 15 A DC		VF	0.55			0.70		Volts	
Maximum instantaneous reverse current at	$TC = 25^{\circ}C$		1.0						mAmps
rated DC blocking voltage per leg (NOTE 2)	$TC = 100^{\circ}C$	lr.	50						mAmps

NOTES : 1. Thermal resistance from junction to case per leg 2. Pulse test : 300 us pulse width, 1% duty cycle

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