

CHENMKO ENTERPRISE CO.,LTD

S16C30PT **THRU** S16C60PT

read free devices

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 30 - 60 Volts CURRENT 16 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-220 molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

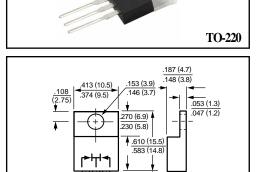
Weight: 2.24 grams (Approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.

Single phase, half wave, 60 Hz, resistive or inductive load.



.583 (14.8 .531 (13.5

.028 (0.7)

.020 (0.5)

 $\frac{.126}{(3.2)}$ TO-220 Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	S16C30PT	S16C35PT	S16C40PT	S16C45PT	S16C50PT	S16C60PT	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	16.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150						Amps
Typical thermal resistance per leg (NOTE 1)	R ∂JC	2.5						°C/W
Operating and Storage Temperature Range	ТJ, Tsтg	-60 to +125						°C

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

CHARACTERISTICS		SYMBOL	S16C30PT	S16C35PT	S16C40PT	S16C45PT	S16C50PT	S16C60PT	UNITS
Maximum Instantaneous Forward Voltage at 8.0 A DC		VF	0.55			0.70		Volts	
Maximum instantaneous reverse current at	TC = 25°C		5.0						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
3. Suffix " C " = Common Cathod, Suffix " A " = Common Anode, Suffix " D " = Double.

2001-6

RATING CHARACTERISTIC CURVES (S16C30PT THRU S16C60PT)

