

## CHENMKO ENTERPRISE CO.,LTD

S15D30PT **THRU** S15D60PT

#### SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 30 - 60 Volts CURRENT 15 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

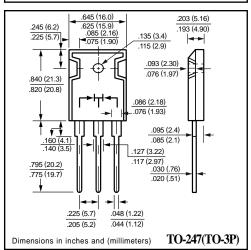
Weight: 5.6 grams ( Approximately )

#### 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%.

# TO-247(TO-3P)



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

RATINGS	SYMBOL	S15D30PT	S15D35PT	S15D40PT	S15D45PT	S15D50PT	S15D60PT	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	15.0						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	2.5						°C/W
Operating and Storage Temperature Range	TJ, TSTG	-60 to +125						°C

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

CHARACTERISTICS		SYMBOL	S15D30PT	S15D35PT	S15D40PT	S15D45PT	S15D50PT	S15D60PT	UNITS	
Maximum Instantaneous Forward Voltage at 7.5 A DC		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	l R	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 ( S15D30PT THRU S15D60PT )

