

CHENMKO ENTERPRISE CO., LTD

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 45 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

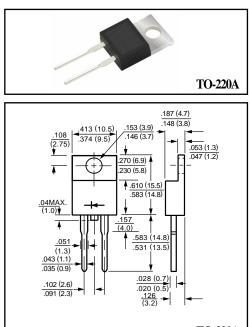
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free
- wheeling, and polarity protection applications High temperature soldering in accordance with CECC 802 / Reflow guaranteed

MECHANICAL DATA

Case: JEDEC TO-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. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



Dimensions in inches and (millimeters)

TO-220A

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

RATINGS	SYMBOL	LS15A20GP	LS15A30GP	LS15A40GP	LS15A45GP	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	45	Volts
Maximum RMS Voltage	VRMS	14	21	28	31	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	45	Volts
Maximum Average Forward Rectified Current	lo	15.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300				
Typical thermal resistance per leg (NOTE 1)	R ∂JC	2.0				
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150				

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

CHARACTERISTICS		SYMBOL	LS15A20GP	LS15A30GP	LS15A40GP	LS15A45GP	UNITS
Maximum Instantaneous Forward Voltage at 15 A DC		VF	0.55			0.58	Volts
Maximum instantaneous reverse current at	TC = 25°C		0.5				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

2011-01

THRU

LS15A20GP

LS15A45GP

