

# CHENMKO ENTERPRISE CO., LTD



# SCHOTTKY BARRIER RECTIFIER

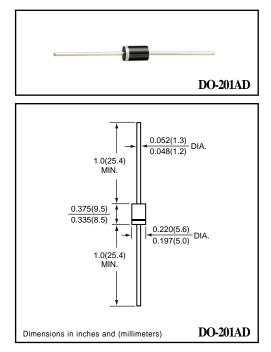
VOLTAGE RANGE 100 Volts CURRENT 5.0 Amperes

# **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low switching noise
- Low forward voltage drop High current capability
- \*
- High switching capability
- High reliability
- High surge capability High temperature soldering guaranteed : 260°C/10 seconds , 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

# **MECHANICAL DATA**

Case: JEDEC DO-201AD molded plastic body Polarity: Color band denotes cathode end Mounting Position: Any



#### Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

For capacitive load, derate current by 20%.

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

RATINGS	SYMBOL	SR5100GP	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	Volts
Maximum RMS Voltage	VRMS	70	Volts
Maximum DC Blocking Voltage	VDC	100	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length (SEE FIG.1)	lo	5.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150	Amps
Typical Junction Capacitance (Note 1)	CJ	150	pF
Typical Thermal Resistance (Note 2)	Rθja	18	°C/W
Operating Temperature Range	TJ	-65 to +150	°C
Storage Temperature Range	Тѕтс	-65 to +150	°C

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

CHARACTERISTICS		SYMBOL	SR5100GP	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A DC		VF	0.80	Volts
Maximum Average Reverse Current	@ TA = 25°C	· Ir	3.0	mAmps
at Rated DC Blocking Voltage	@ TA = 100°C		30	mAmps
NOTES 1 Measured at 1.0 MHz and annied reverse voltage of 4.0 volts				2005-9

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance ( Junction to Ambient ) : Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

