



CHENMKO ENTERPRISE CO.,LTD

SR8150GP

Halogens free devices

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 150 Volts CURRENT 8.0 Amperes

FEATURES

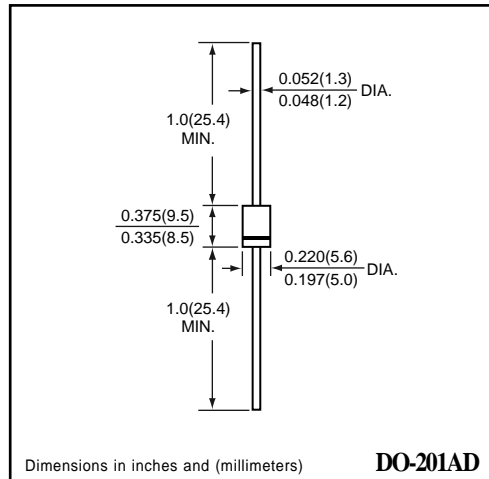
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High reliability
- * High surge capability
- * High temperature soldering guaranteed : 260°C/10 seconds

MECHANICAL DATA

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



DO-201AD



DO-201AD

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 RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SR8150GP	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150	Volts
Maximum RMS Voltage	V _{RMS}	105	Volts
Maximum DC Blocking Voltage	V _{DC}	150	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length (SEE FIG.1)	I _O	8.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	125	Amps
Typical Junction Capacitance (Note 1)	C _J	150	pF
Typical Thermal Resistance (Note 2)	R _{θJA}	18	°C / W
Operating Temperature Range	T _J	-65 to +150	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

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

CHARACTERISTICS	SYMBOL	SR8150GP	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A DC	V _F	0.92	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	2.0	uAmps
	@ TJ = 150°C	50	mAmps

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.

RATING CHARACTERISTIC CURVES (SR8150GP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

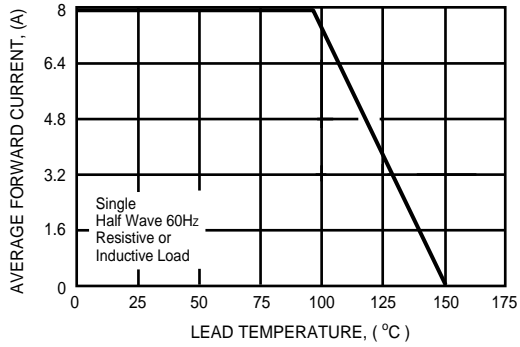


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

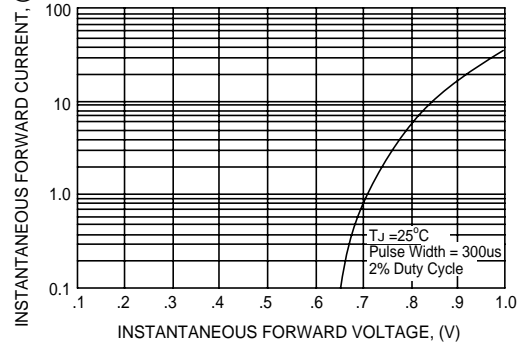


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

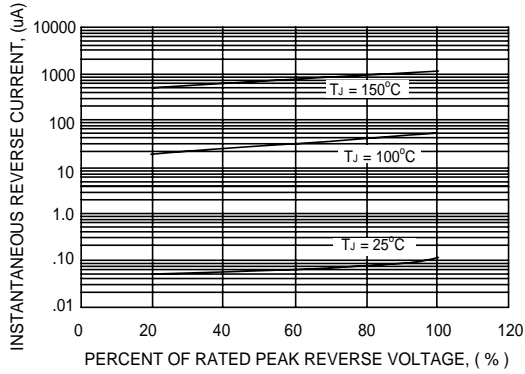


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

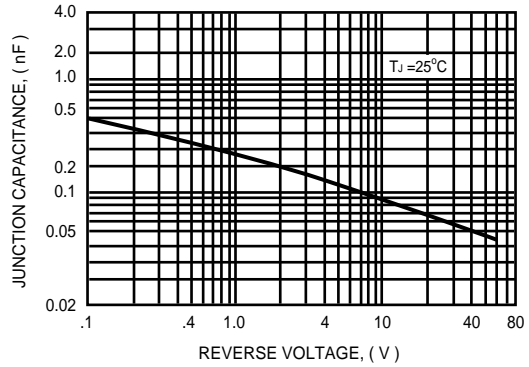


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

