



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 100 Volts CURRENT 8.0 Amperes

CHSDHJ2GP

FEATURES

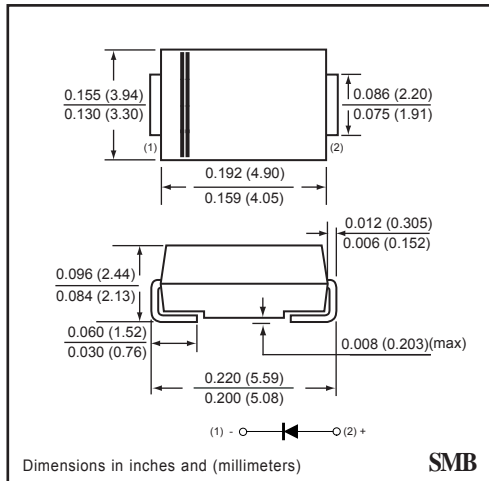
- * □ Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- * □ For surface mounted applications
- * □ Low profile package
- * □ Built-in strain relief
- * □ Metal silicon junction, majority carrier conduction
- * □ Low power loss, high efficiency
- * □ High current capability, low forward voltage drop
- * □ High surge capability
- * □ For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- * □ High temperature soldering guaranteed :
 - 260°C/10 seconds at terminals

MECHANICAL DATA

- Case:** JEDEC SMB molded plastic
- Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity:** Color band denotes cathode end
- Weight:** 0.003 ounce 0.093 gram

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	CHSDHJ2GP	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	Volts
Maximum RMS Voltage	V _{RMS}	70	Volts
Maximum DC Blocking Voltage	V _{DC}	100	Volts
Maximum Average Forward Rectified Current	I _O	8.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150	Amps
Typical thermal resistance per leg (NOTE 1)	R _{θJC}	7.5	°C / W
Total Power Dissipation	P _D	4.0	W
Operating and Storage Temperature Range	T _J , T _{STG}	-40 to +150	°C

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

CHARACTERISTICS	SYMBOL	CHSDHJ2GP	UNITS
Maximum Instantaneous Forward Voltage at 8.0 A DC	V _F	0.8	Volts
Maximum instantaneous reverse current at rated DC blocking voltage per leg (NOTE 2)	T _C = 25°C	0.1	mAmps
	T _C = 100°C	20	mAmps

NOTES : 1. Thermal resistance from junction to case per leg
2. Pulse test : 300 us pulse width, 1% duty cycle

2013-01

RATING CHARACTERISTIC CURVES (CHSDHJ2GP)

Fig.1- Forward Current

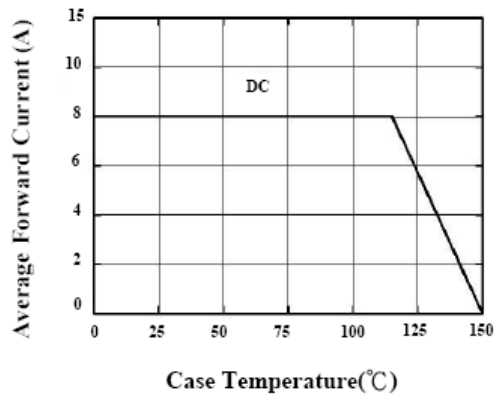


Fig.2- Typical Instantaneous Forward

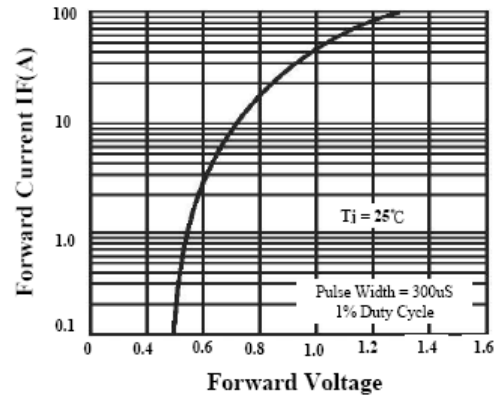


Fig.3- Typical Reverse

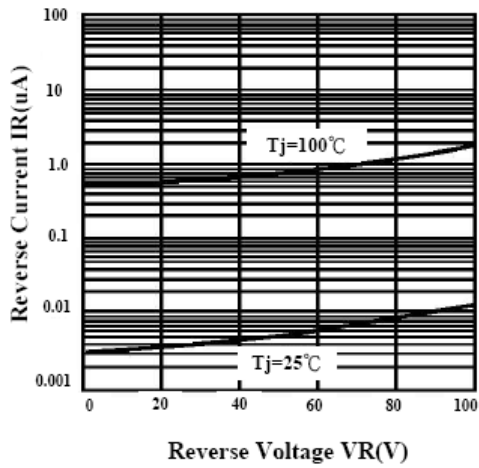


Fig.4- Tmaximum Non -Repetitive Surge Current

