

REVERSE VOLTAGE: 20 to 200 VOLTS
FORWARD CURRENT: 10.0 AMPERE

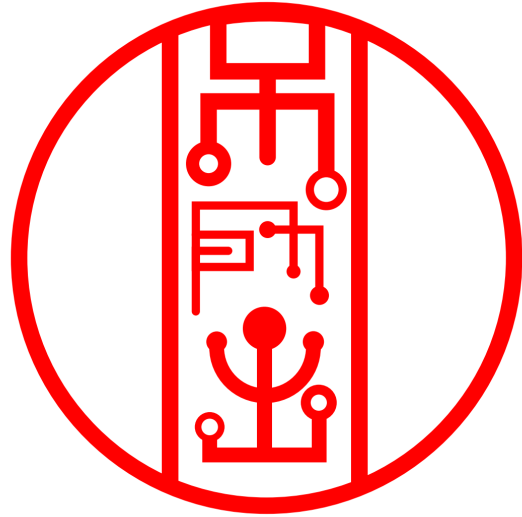
FEATURES

- Plastic package has UL flammability classification 94V-0
- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- High capability
- Low power loss, high efficiency
- High current capability, low V_F
- High surge capacity
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: Molded plastic, DO-214AB/SMC Epoxy:
 UL 94V-0 rate flame retardant Terminals:
 Leads solderable per MIL-STD-202 method
 208 guaranteed
 Polarity: As marked
 Mounting position: Any

DO-214AB/SMC



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

	Symbols	SS1020CG	SS1030CG	SS1040CG	SS1050CG	SS1060CG	SS1080CG	SS10100CG	SS10150CG	SS10200CG	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	10.0									Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150									Amp
Maximum Forward Voltage at 10.0A DC and 25℃	V _F	0.55			0.7		0.85		0.95		Volts
Maximum Reverse Current at T _C =25℃ at Rated DC Blocking Voltage T _C =125℃	I _R	0.5									mA
		5									
Typical Junction Capacitance (Note 1)	C _J	600			400						pF
Typical Thermal Resistance (Note 2)	R _{θJC}	3.5									℃/W
Operating Temperature Range	T _J	-55 to +150									℃
Storage Temperature Range	T _{stg}	-55 to +150									℃

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance from Junction to Case Per Leg

RATINGS AND CHARACTERISTIC CURVES

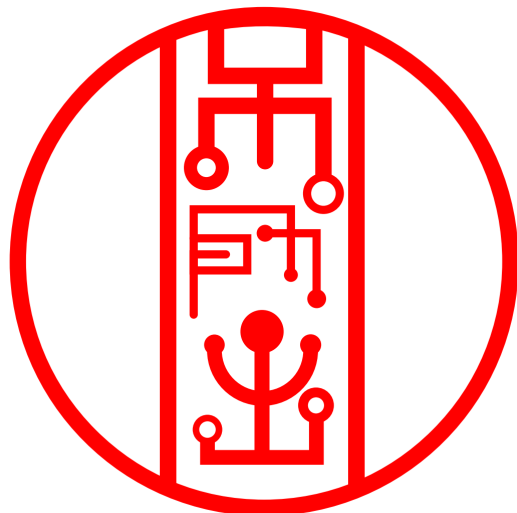


Fig.3 Typical Reverse Characteristics

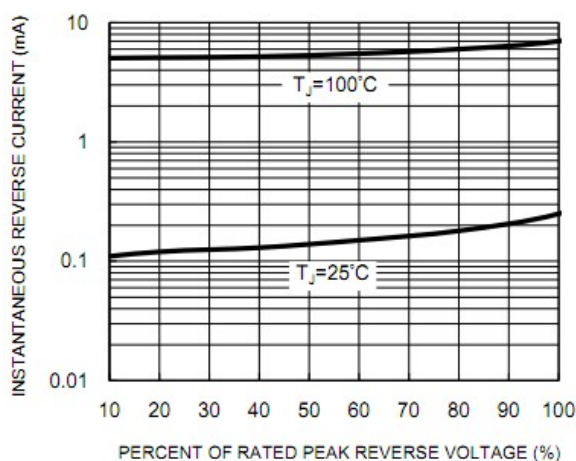


Fig.4 Typical Forward Characteristics

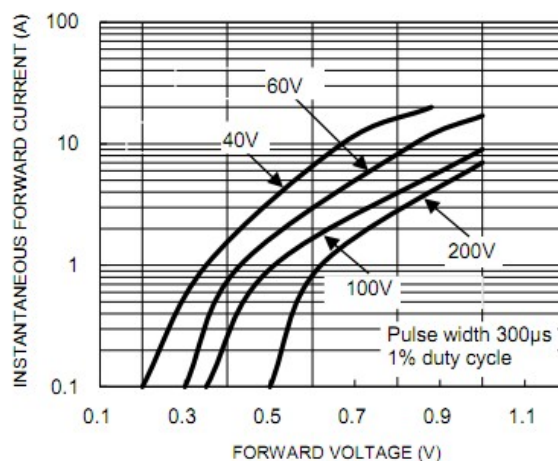


Fig.5 Maximum Non-Repetitive Forward Surge Current

