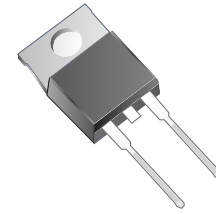


SR1030-G Thru. SR10200-G

Forward current: 10A

Reverse voltage: 30 to 200V

RoHS Device

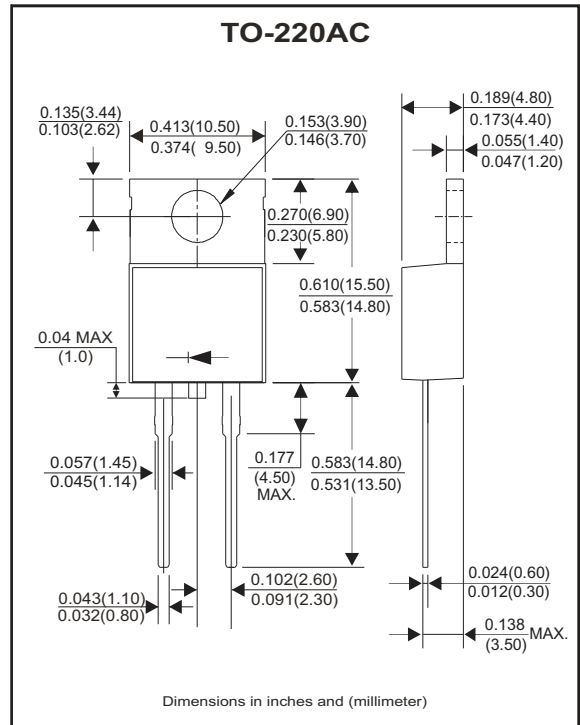


Features

- Metal of silicon rectifier , majority carrier conduction.
- Guard ring for transient protection.
- Low Power Loss / High Efficiency.
- High current capability , low VF.
- High surge capacity.
- For use in low voltage , high frequency inverters , free wheeling, and polarity protection applications.

Mechanical data

- Case: TO-220AC, molded plastic.
- Epoxy: UL 94V-0 rate flame retardant.
- Polarity: As marked on the body.
- Mounting position: Any
- Weight: 2.24 grams



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%.

Characteristics	Symbol	SR10 30-G	SR10 40-G	SR10 50-G	SR10 60-G	SR10 80-G	SR10 100-G	SR10 150-G	SR10 200-G	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current (See Fig.1) @ $T_c=95^\circ C$	$I_{(AV)}$	10.0								A
Peak forward surge current, 8.3ms single half sine-wave super imposed on rated load (JEDEC method)	I_{FSM}	175								A
Peak forward voltage at 10.0A DC (Note 1)	V_F	0.55		0.70		0.85		0.95		V
Maximum DC reverse current @ $T_J=25^\circ C$ at rated DC blocking voltage @ $T_J=100^\circ C$	I_R					1.0				mA
Typical junction capacitance (Note 2)	C_J					500				pF
Typical thermal resistance (Note 3)	$R_{\theta JC}$					2.5				$^\circ C/W$
Operating temperature range	T_J					-55 ~ +125				$^\circ C$
Storage temperature range	T_{STG}					-55 ~ +150				$^\circ C$

NOTES: 1. 1.300us pulse width, 2% duty cycle.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal resistance junction to case.

Company reserves the right to improve product design , functions and reliability without notice.

REV:B

RATING AND CHARACTERISTIC CURVES (SR1030-G Thru. SR10200-G)

Fig.1 Forward Current Derating Curve

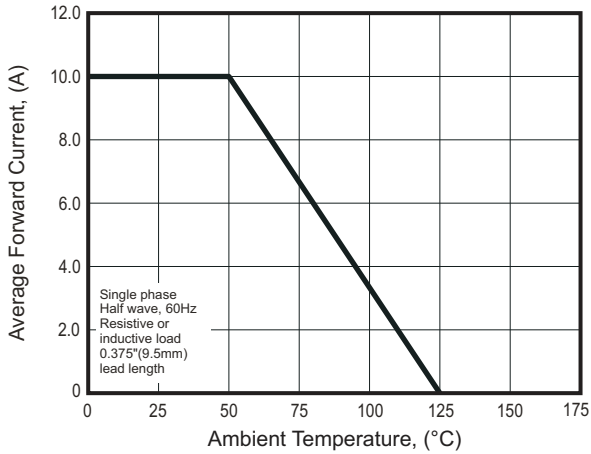


Fig.2 Max. Non-repetitive Surge Current

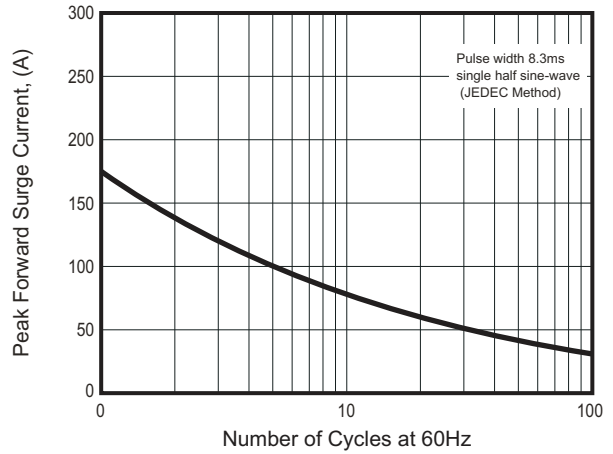


Fig.3 Typical Reverse Characteristics

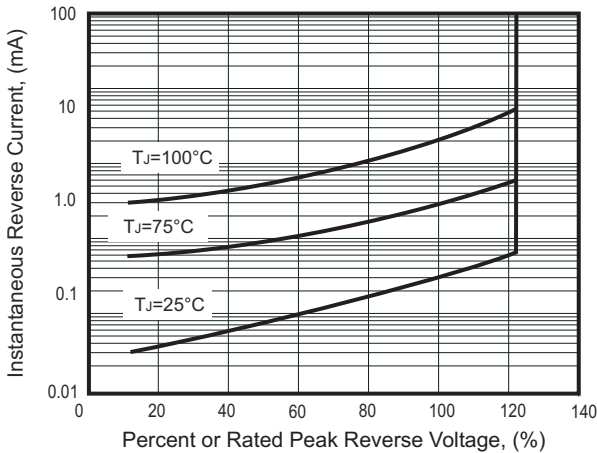


Fig.4 Typical Forward Characteristics

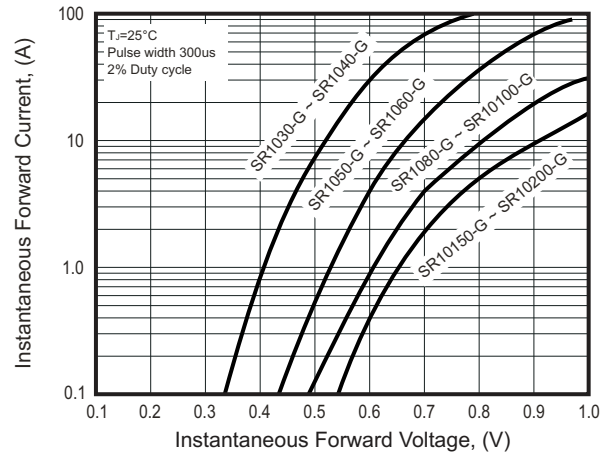
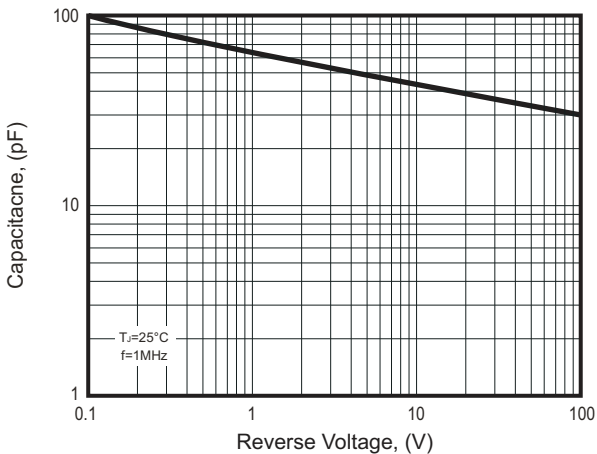


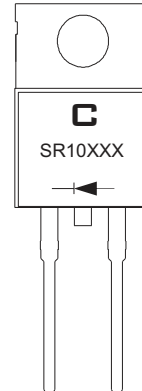
Fig.5 Typical Junction Capacitance



Company reserves the right to improve product design, functions and reliability without notice.

Marking Code

Part Number	Marking code
SR1030-G	SR1030
SR1040-G	SR1040
SR1050-G	SR1050
SR1060-G	SR1060
SR1080-G	SR1080
SR10100-G	SR10100
SR10150-G	SR10150
SR10200-G	SR10200



C = Compchip Logo
XXX = Product type marking code

Standard Packaging

Case Type	TUBE PACK	
	TUBE (pcs)	BOX (pcs)
TO-220AC	50	2,000