.021(0.53)

.110(2,79)









Features

- Glass passivated junction chip
- High efficiency, low VF \diamond
- \diamondsuit High current capability
- \diamond High reliability
- High surge current capability
- \diamond Low power loss
- For use in low voltage, high frequency inventor, Free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- Case: D²PAK Molded plastic
- \diamond Epoxy: UL 94V-0 rate flame retardant
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- \diamond Polarity: As marked
- High temperature soldering: 260° C/10 seconds/.16",(4.06mm) from case
- Weight: 1.33 grams

110(2.79)

D²PAK

10 AMPS Surface Mount Super Fast Rectifiers

PIN 1 PIN 3

.037(0.94) .027(0.68)

Dimensions in inches and (millimeters)

Marking Diagram SFAS100XG = Specific Device Code **S**GYWW G = Green Compound SFAS100XG Υ ww = Work Week

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	SFAS1008G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10	A
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	125	А
Maximum Instantaneous Forward Voltage @ 10 A	V _F	1.7	V
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C T_A =100 $^{\circ}$ C	I _R	10 400	uA
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical Junction Capacitance (Note 2)	Cj	60	pF
Typical Thermal Resistance	$R_{\theta jC}$	2.2	°C/W
Operating Temperature Range	TJ	- 65 to + 150	оС
Storage Temperature Range	T _{STG}	- 65 to + 150	°C

Note 1: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (SFAS1008G)















