SSF3DG-S28

GLASS PASSIVATED JUNCTION
ULTRAFAST EFFICIENT RECTIFIER

VOLTAGE: 200V(Surge: 280V) **CURRENT:3.0A**

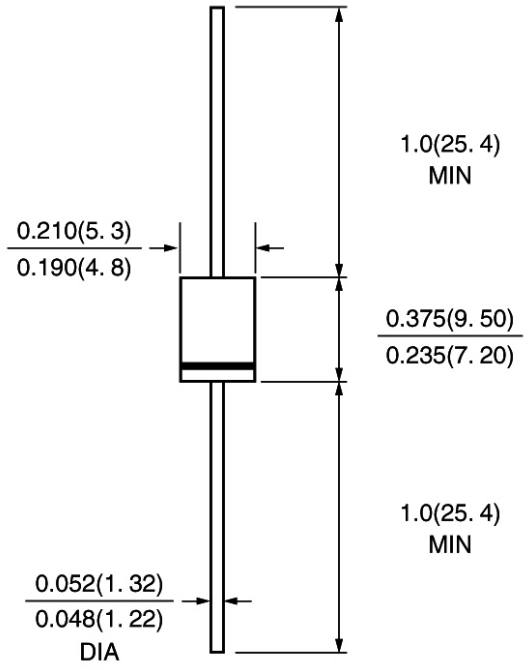
FEATURE

Low power loss
High surge capability
Ultra-fast recovery time for high efficiency
Glass passivated chip junction
High temperature soldering guaranteed
250°C/10sec/0.375"lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity: color band denotes cathode
Weight: 0.045 oz., 1.2 g
Marking: SSF3DGS

DO−201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	SSF3DG-S28	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	280	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	125	A
Maximum Forward Voltage at Forward Current 3.0A	Vf	0.95	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta=125°C	Ir	10 100	μA
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to ambient	Rth(ja)	20	°C/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +175	°C

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

RATINGS AND CHARACTERISTIC CURVES SSF3DG-S28

Figure 1. Maximum Forward Current Derating Curve

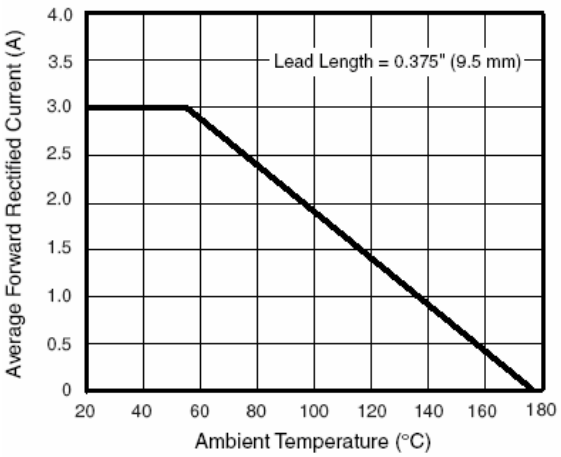


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

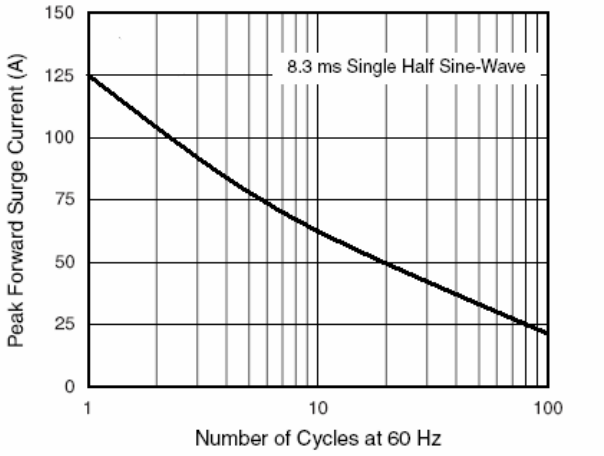


Figure 3. Typical Instantaneous Forward Characteristics

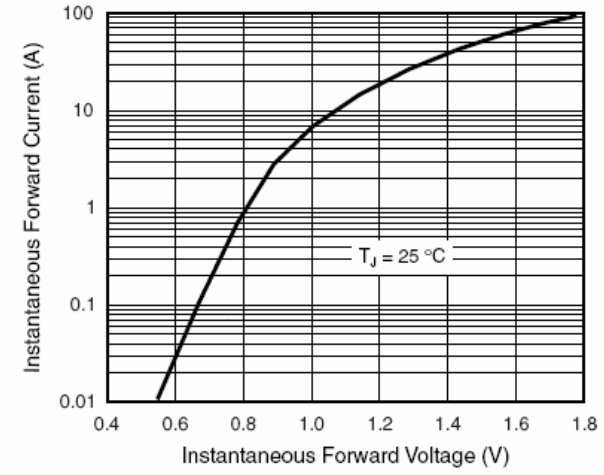


Figure 4. Typical Reverse Leakage Characteristics

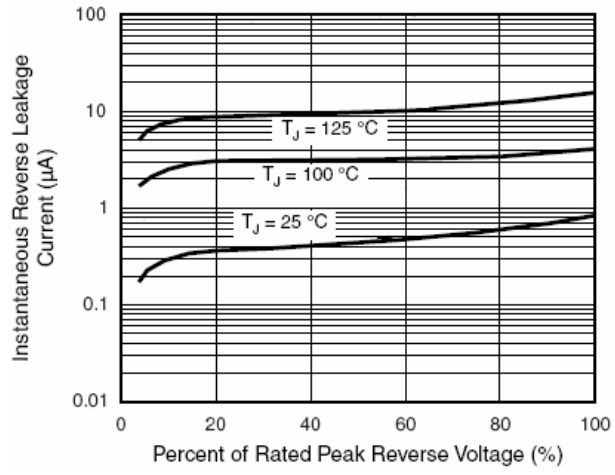


Figure 5. Typical Junction Capacitance