

S3L20U

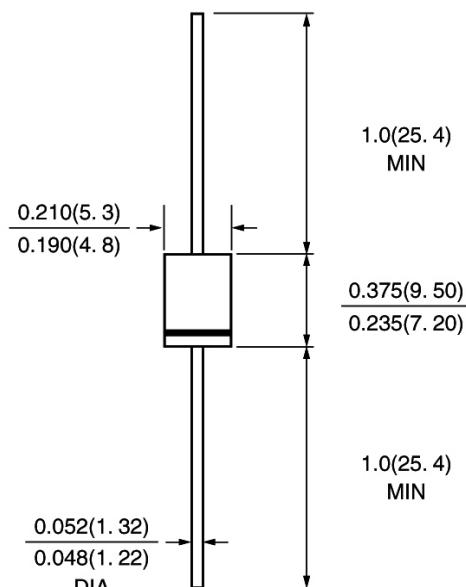
**ULTRAFAST EFFICIENT
PLASTIC SILICON RECTIFIER**
VOLTAGE: 200v CURRENT: 2.1A

**FEATURE**

Low power loss
High surge capability
Glass passivated chip junction
Ultra-fast recovery time for high efficiency
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
Mounting position: any

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	S3L20U	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	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 =25°C	If(av)	2.1	A
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	Ifsm	60.0	A
Maximum Forward Voltage at Pulse Measurement If=2.1A	Vf	0.98	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 100.0	µ A µ A
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical Junction Capacitance (Note 2)	Cj	52	pF
Typical Thermal Resistance (Note 3)	R(ja)	60.0	°C/W
Storage and Operating Junction Temperature	Tstg,Tj	-55 to +150	°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted



FSEMI

SUPER FAST RECOVERY RECTIFIER

MARKING:

1



RATINGS AND CHARACTERISTIC CURVES S3L20U

2

Fig.1 Derating Curve

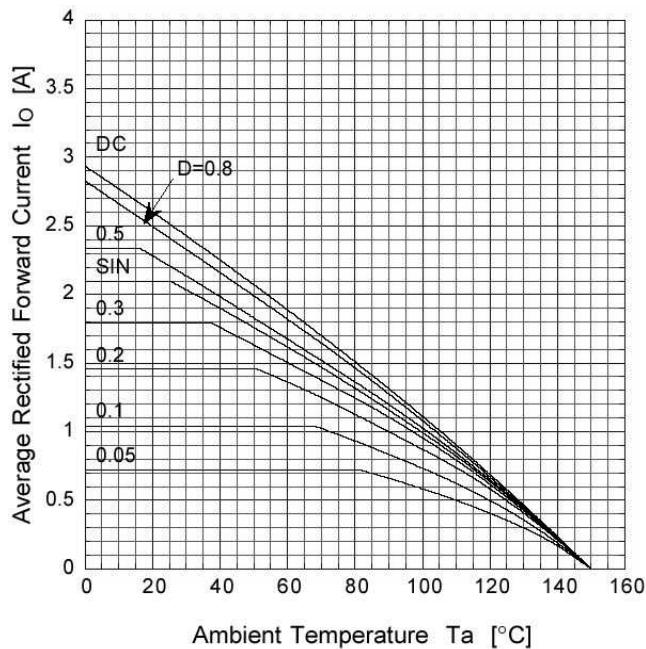


Fig.2 Forward Voltage

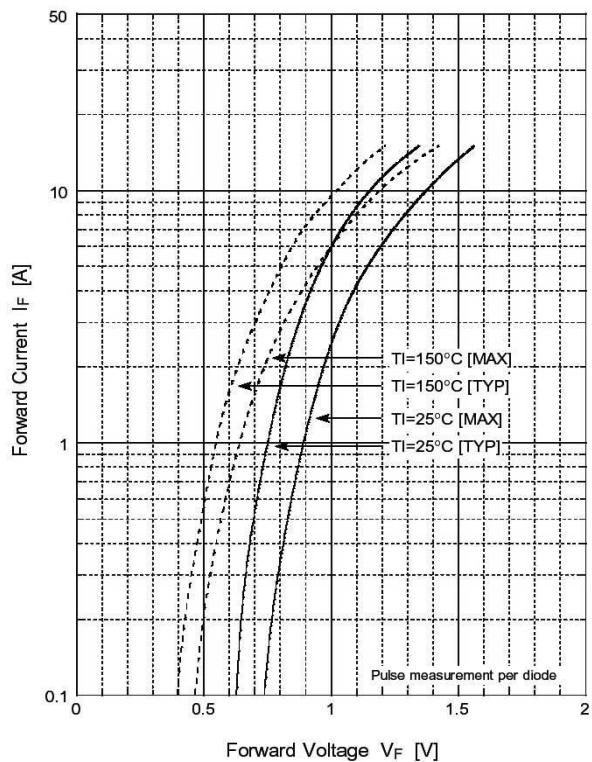


Fig.3 Peak Surge Forward Capability

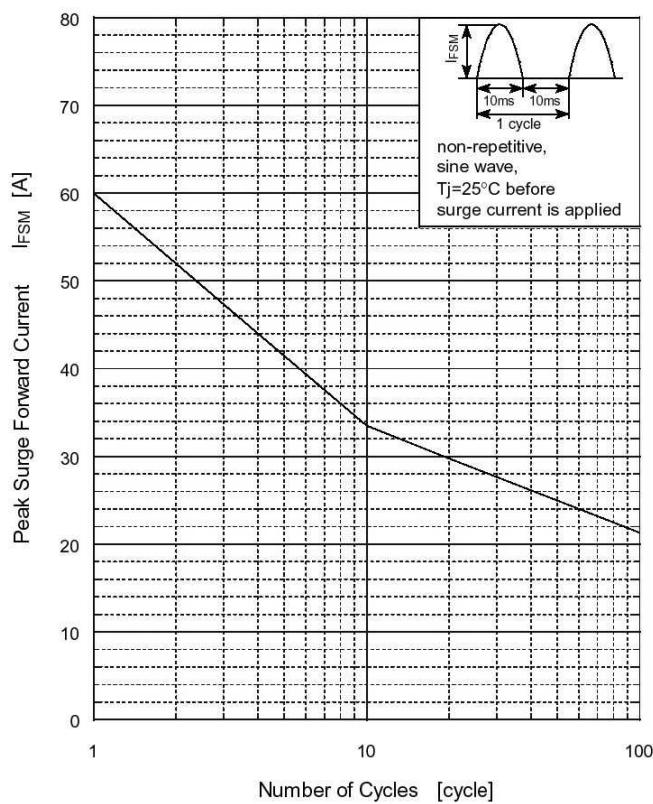


Fig.4 Junction Capacitance

