S2L60

ULTRAFAST EFFICIENT PLASTIC SILICON RECTIFIER

VOLTAGE：600v CURRENT： 1.2A

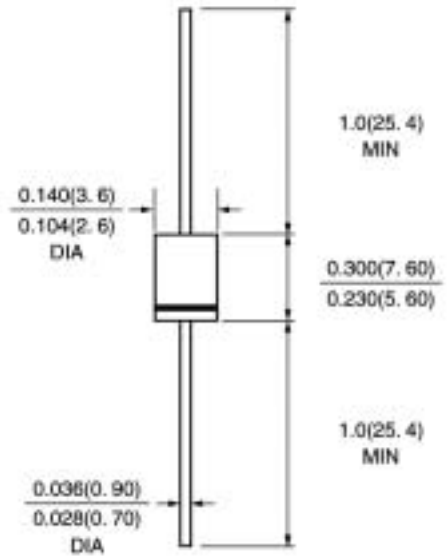
FEATURE

Low power loss
High surge capability
Glass passivated chip junction
Ultra-fast recovery time for high efficiency
High temperature soldering guaranteed
250℃/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–15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated)

	SYMBOL	S2L60	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	480	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified Current 3/8 ″ lead length at Ta =25℃	If(av)	1.2	A
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	Ifsm	50.0	A
Maximum Forward Voltage at Pulse Measurement If=1.5A	Vf	1.5	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	10.0 100.0	μA μA
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Typical Junction Capacitance (Note 2)	Cj	20	pF
Typical Thermal Resistance (Note 3)	R(ja)	83	℃/W
Storage and Operating Junction Temperature	Tstg,Tj	-55 to +150	℃

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

[1]

Fig.1 Derating Curve

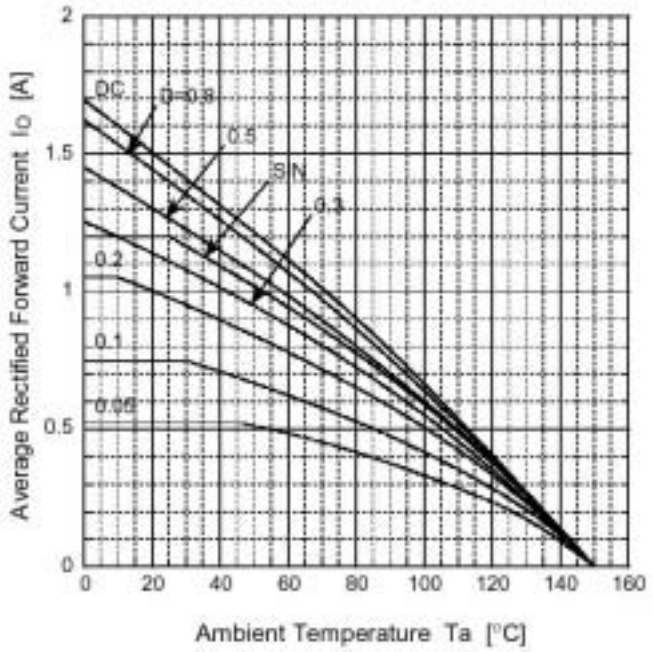


Fig.2 Forward Voltage

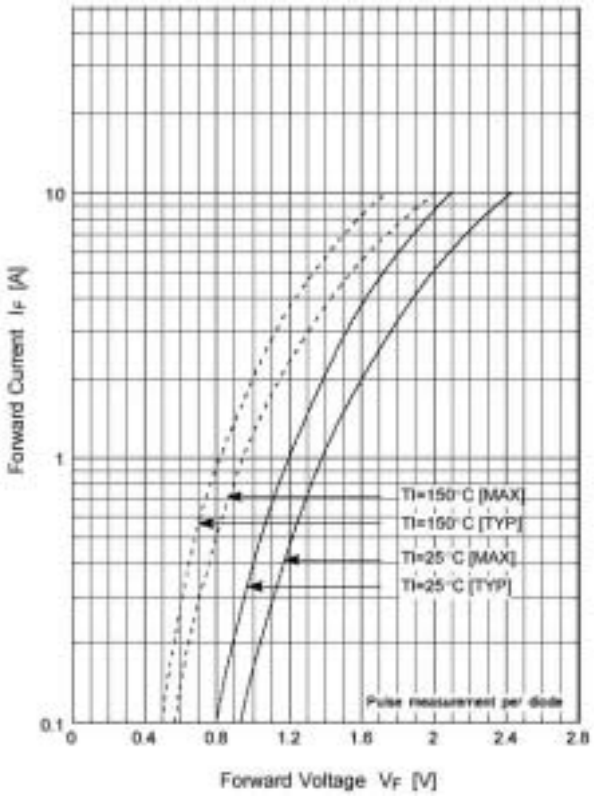


Fig.3 Peak Surge Forward Capability

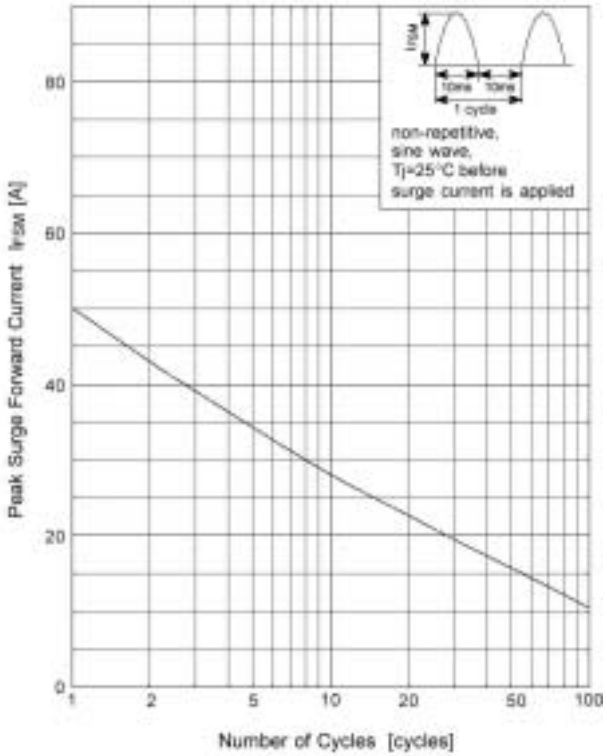
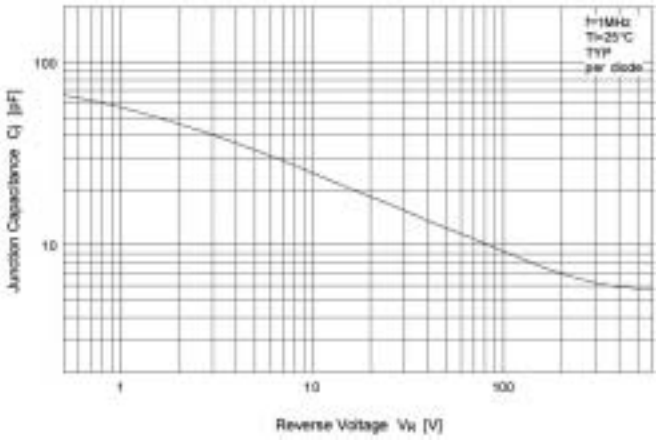


Fig.4 Junction Capacitance



[1] Rev.A4, 1-Jul-03