RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

SSL24F THRU SSL26F

Surface Mount Schottky Barrier Rectifier

VOLTAGE RANGE 40 to 60 Volts CURRENT 2.0 Amperes

FEATURES

* Metal silicon junction, majority carrier conductionl
* For surface mounted applications
* Low power loss, high efficiency
* High forward surge current capability
* For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0
* Case: SMAF

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Top View
Marking Code: SSL24 /SSL26
Simplified outline SMAF and symbol

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.

MAXIMUM RATINGS (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	SSL24F	SSL26F	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60	Volts
Maximum RMS Voltage	V_{RMS}	28	42	Volts
Maximum DC Blocking Voltage	V_{DC}	40	60	Volts
Maximum Average Forward Rectified Current at TC = 100°C	I_O	2.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50		Amps
Typical Current Squared Time	I^2T	10.37		A^2S
Typical Thermaesistance (Note 2)	$R\theta_{JA}$	70		°C/W
Typical Junction Capacitance (Note 1)	C_J	290	130	pF
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to + 150		°C

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless ot herwise noted)

CHARACTERISTICS		SYMBOL	SSL24F	SSL26F	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC		V_F	0.45	0.52	Volts
Maximum Average Reverse Current	@T_A = 25°C	I_R	0.5	0.3	mAmps
at Rated DC Blocking Voltage	@T_A = 100°C		10	5.0	mAmps

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
2. Thermal resistance junction to terminal, 5X5mm² copper pads to each terminal.

2017-09/01
REV:O

RATING AND CHARACTERISTICS CURVES (SSL24F THRU SSL26F)

Fig.1 Forward Current Derating Curve

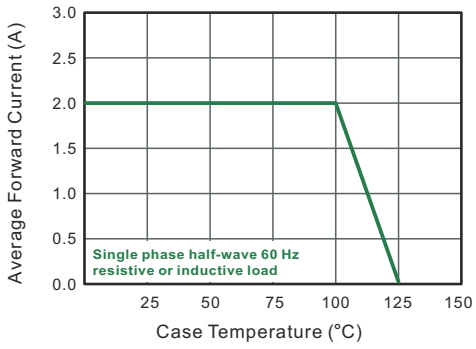


Fig.2 Typical Reverse Characteristics

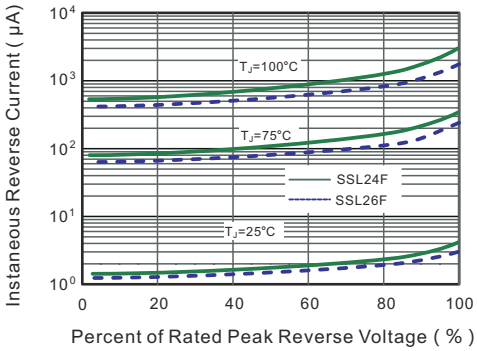


Fig.3 Typical Forward Characteristic

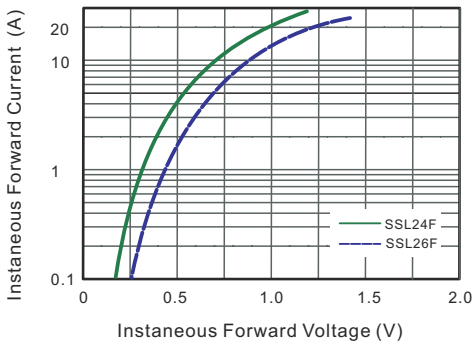


Fig.4 Typical Junction Capacitance

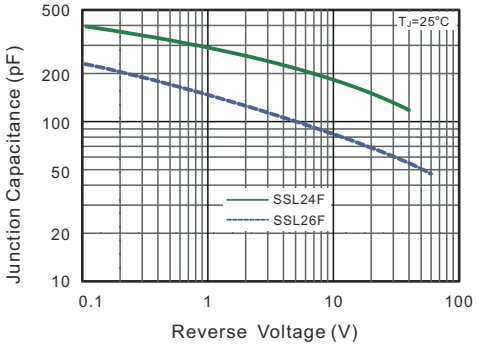


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

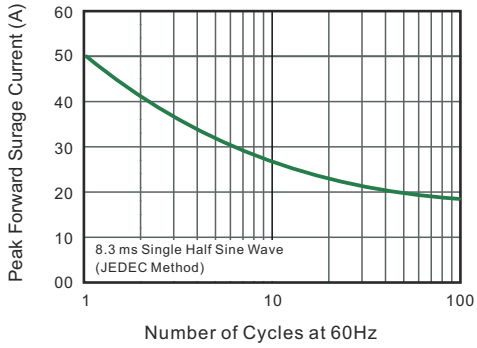
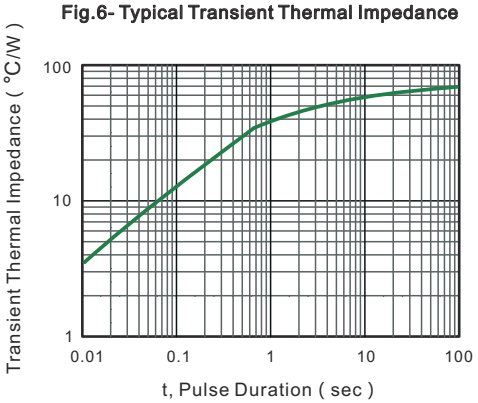
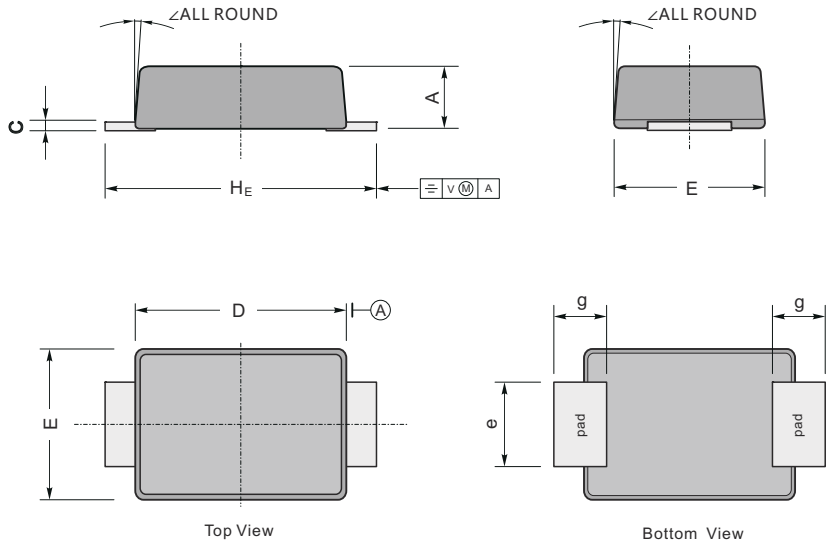


Fig.6- Typical Transient Thermal Impedance



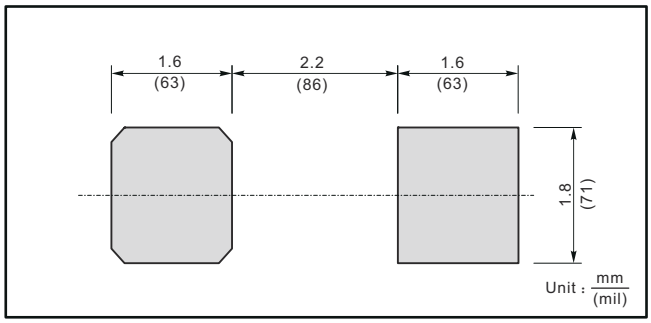
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads SMAF



UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	
mil	max	43	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size



Marking

Type number	Marking code
SSL24F	SSL24
SSL26F	SSL26

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMAF	-T	3,000	12,000	---	---	178	390*205*310	96,000	---
SMAF	-W	10,000	20,000	---	---	330	360*355*360	160,000	---

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.