

SS32F (SS32) THRU SS320F (SS320)

Surface Mount Schottky Rectifier

Essential information; basic information

Features

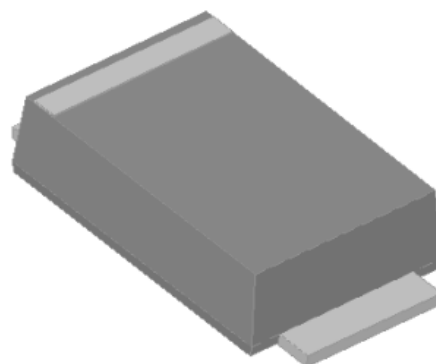
- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

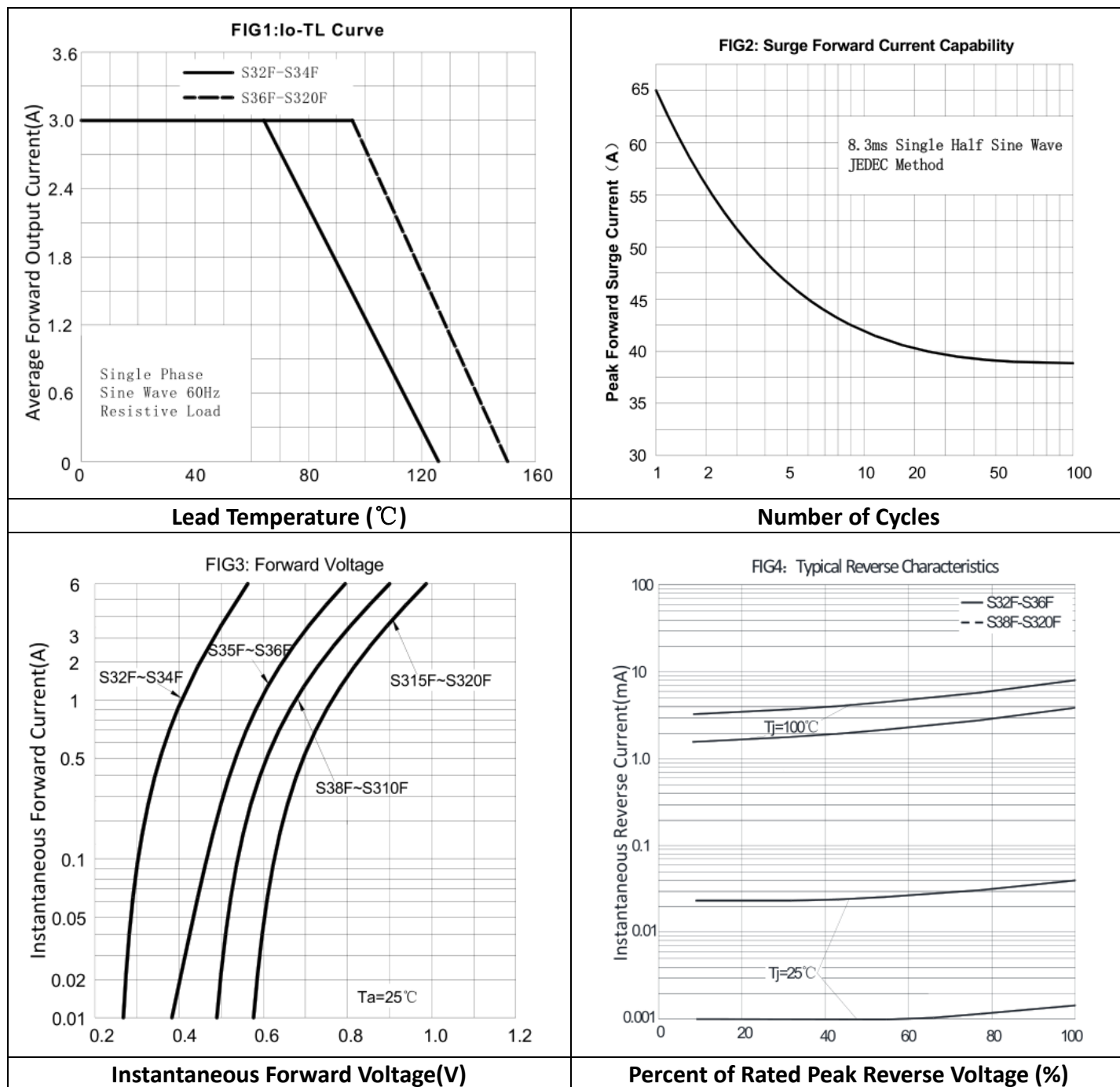
- Package: SMAFL
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end



Maximum Ratings (Ta=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32F	SS34F	SS36F	SS38F	SS310F	SS315F	SS320F
Alternate Name			SS32	SS34	SS36	SS38	SS310	SS315	SS320
Maximum Repetitive peak reverse voltage	VRRM	V	20	40	60	80	100	150	200
Average rectified output current@60Hz sine wave, resistance load, TL (Fig.1)	IO	A	3.0						
Forward Surge Current (Non-repetitive)@60Hz Half-sine wave,1 cycle, Tj=25℃	IFSM	A	65						
Storage temperature	Tstg	℃	-55 ~ +125						
Junction temperature	Tj	℃	-55 ~ +125		-55 ~ +150				
Maximum instantaneous forward voltage drop per diode	VF (IFM=3.0A)	V	0.6		0.7	0.85		0.9	
Maximum DC reverse current at rated DC blocking voltage per diode @VRM=VRRM	IR (Tj =25℃)	mA	0.5			0.1			
	IR (Tj =100℃)		10			5			

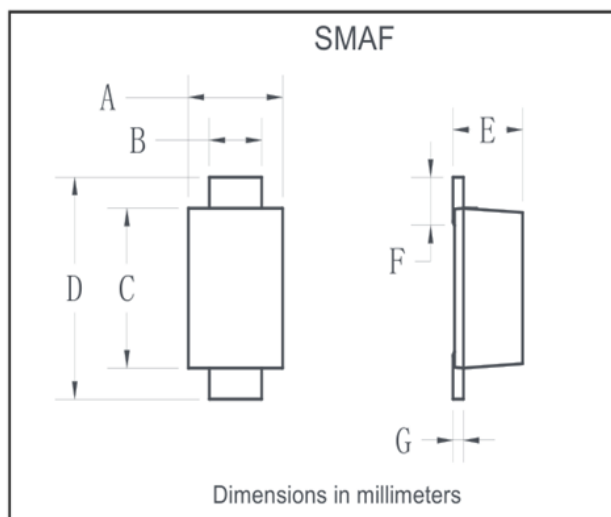
Characteristics (Typical)



Ordering Information (Example)

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS32F-SS320F SS32-SS320 (SMAFL)	T/B	3000	18000	180000	7" reel
		3000	21000	210000	7" reel
		3000	24000	240000	7" reel
		5000	10000	100000	11" reel
		10000	20000	200000	13" reel

Outline Dimensions



SMAF		
Dim	Min	Max
A	2.30	2.80
B	1.25	1.45
C	3.40	3.60
D	4.20	4.80
E	0.95	1.25
F	0.40	1.00
G	0.10	0.20

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