

Surface Mount Schottky Rectifier

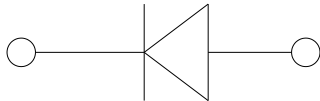


Features

- Low profile package
- Ideal for automated placement
- 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:** SMAF
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **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	S34FT
Device marking code			S34F
Repetitive peak reverse voltage	VRRM	V	40
Average rectified output current @60Hz sine wave, Resistance load, TL (FIG.1)	IO	A	3.0
Surge(non-repetitive)forward current @60HZ Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	80
Storage temperature	Tstg	°C	-55 ~+150
Junction temperature	Tj	°C	-55~+150

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S34FT
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=3.0A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	IR	mA	Ta=25°C	0.10
			Ta=125°C	10

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



S34FT

■ Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S34FT
Thermal Resistance	R θ J-A	$^{\circ}\text{C}/\text{W}$	65
	R θ J-L		20

■ Characteristics (Typical)

FIG1:Io-TL Curve

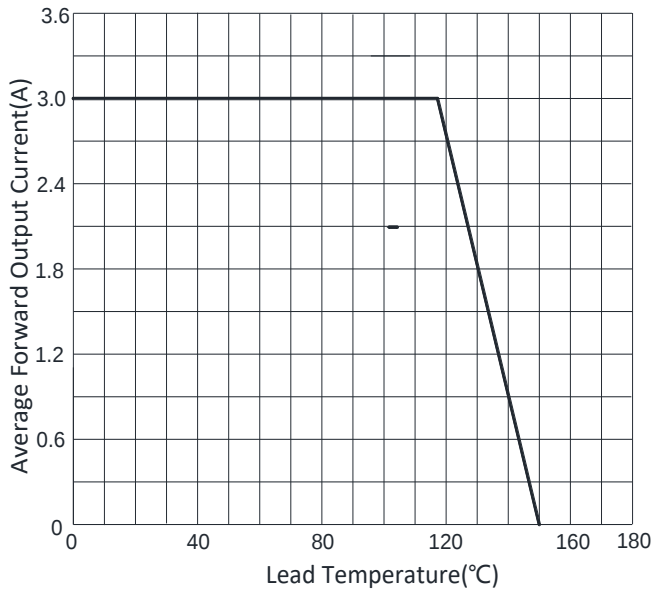


FIG2:Surge Forward Current Capadility

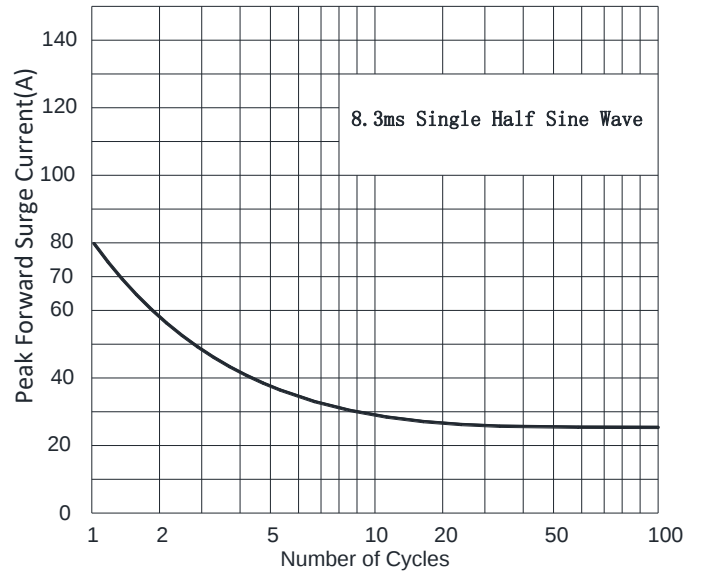


FIG3: Forward Voltage

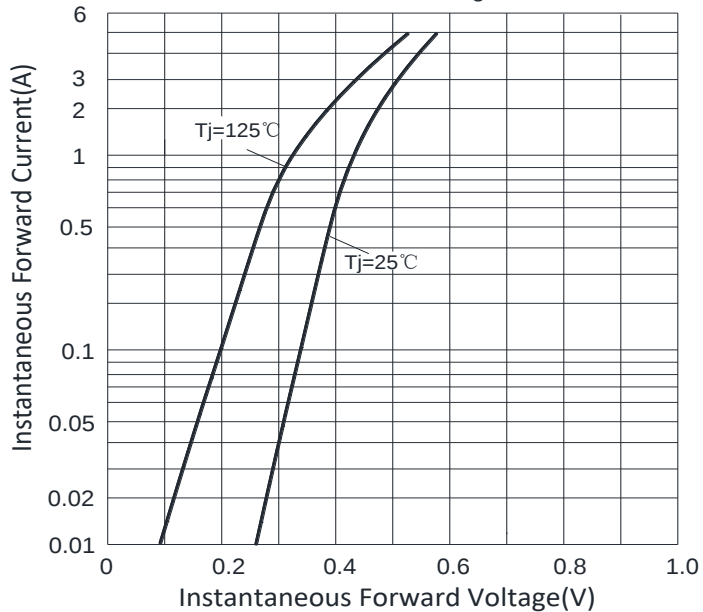
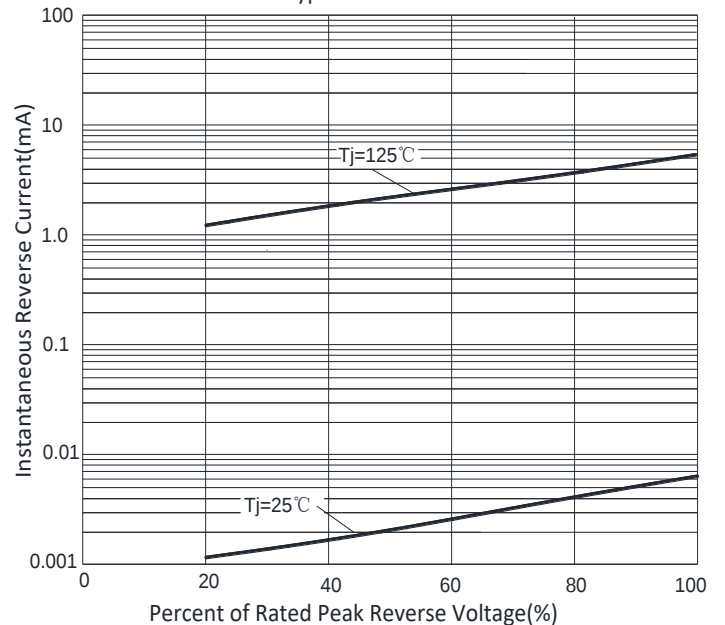


FIG4: Typical Reverse Characteristics



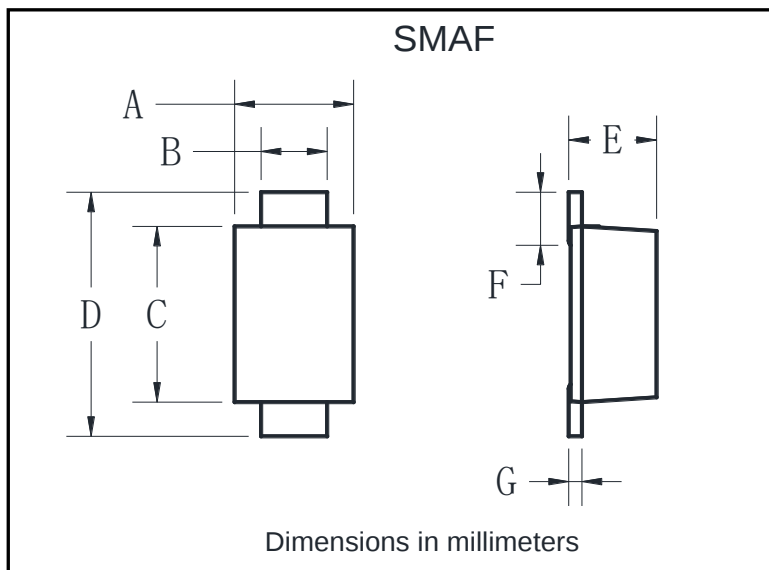


S34FT

■ Ordering Information (Example)

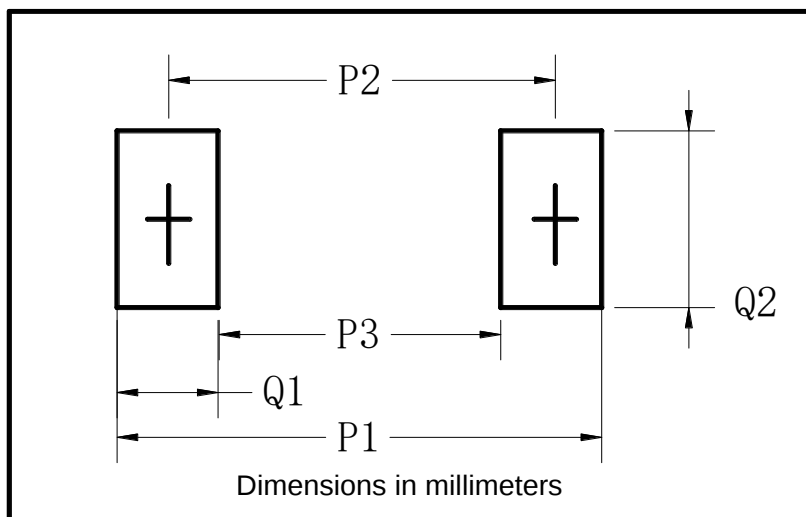
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S34FT	F1	Approximate 0.034	3000	24000	96000	7" reel
S34FT	F2	Approximate 0.034	10000	20000	160000	13" reel
S34FT	F3	Approximate 0.034	10000	20000	120000	13" reel
S34FT	F4	Approximate 0.034	7500	15000	120000	13" reel

■ Outline Dimensions



SMAF		
Dim	Min	Max
A	2.40	2.80
B	1.35	1.45
C	3.40	3.60
D	4.40	4.80
E	1.05	1.25
F	0.50	1.00
G	0.15	0.25

■ Suggested pad layout



SMAF	
Dim	Millimeters
P1	6.50
P2	4.00
P3	1.50
Q1	2.50
Q2	1.70



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