

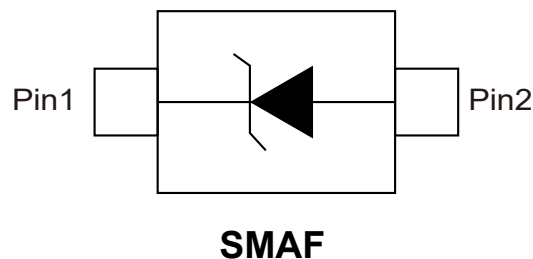
1.Features

- Metal silicon junction, majority carrier conduction
- 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

2.Mechanical Data

- Case: SMAF
- Approx. Weight: 27mg 0.00095oz
- Terminals: Solderable per MIL-STD-750 Method 2026

3.Pinning information





4. Maximum Ratings And Electrical Characteristics

Parameter		Symbol	SS 22F	SS 24F	SS 26F	SS 28F	SS 210F	SS 212F	SS 215F	SS 220F	Units
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage		V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current		I _{F(AV)}	2								A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	50				40				A
Max Instantaneous Forward Voltage at 2A		V _F	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	T _A =25°C	I _R	0.5			0.3				mA	
	T _A =100°C		5			3				mA	
Typical Junction Capacitance (Note1)		C _J	160		80						pF
Typical Thermal Resistance (Note 2)		R _{θJA}	80								°C/W
Junction Temperature Range		T _J	-55 to 150								°C
Storage Temperature Range		T _{STG}	-55 to 150								°C

Absolute Maximum Ratings and Electrical characteristics Ratings at ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %.

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- (2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



5. Typical characteristic

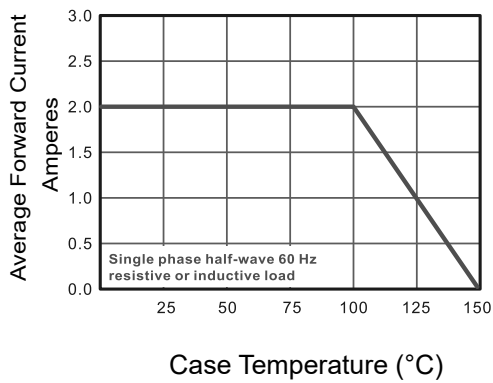


Figure 1: Forward Current Derating Curve

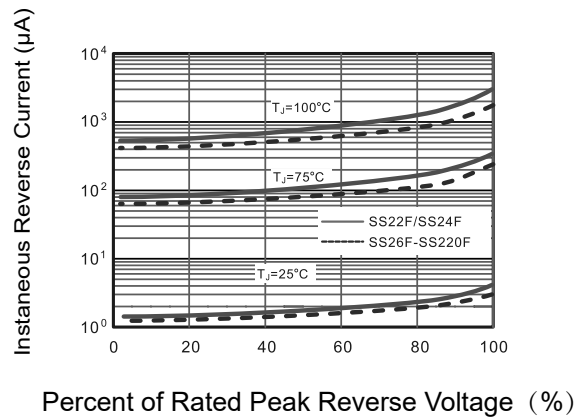


Figure 2: Typical Reverse Characteristics

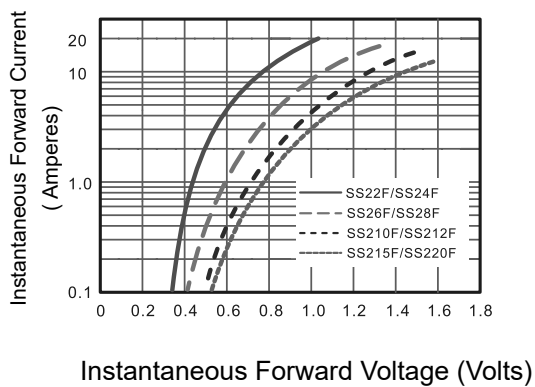


Figure 3: Typical Forward Characteristic

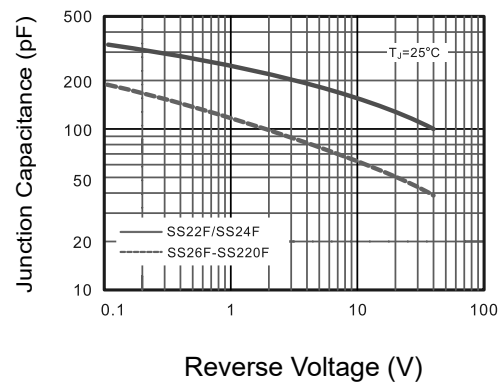


Figure 4: Typical Junction Capacitance

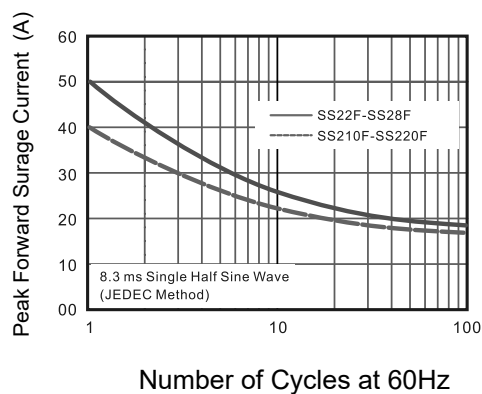


Figure 5: Maximum Non-Repetitive Peak Forward Surge Current

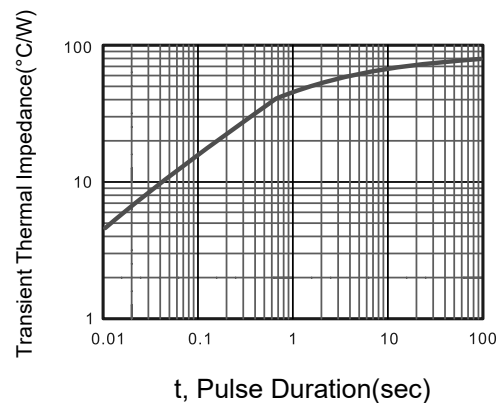
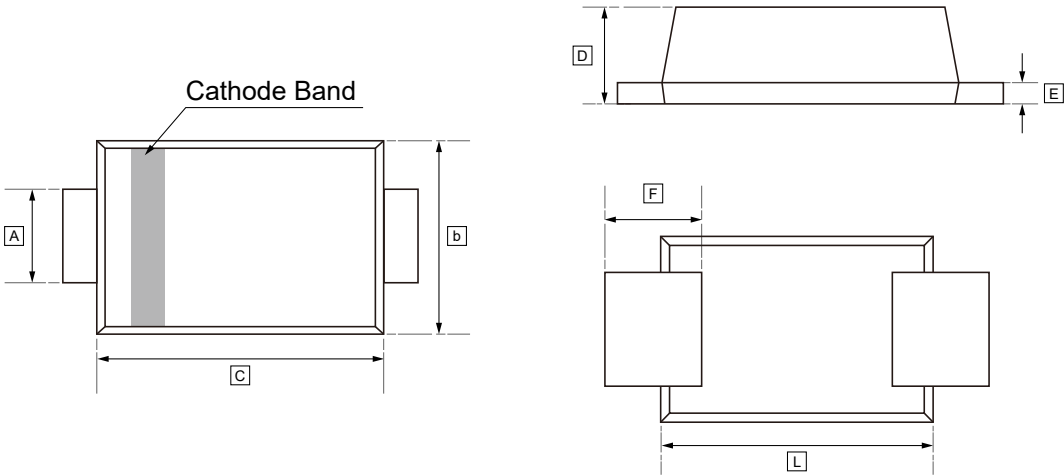


Figure 6: Typical Transient Thermal Impedance



6.SMAF Package Outline Dimensions

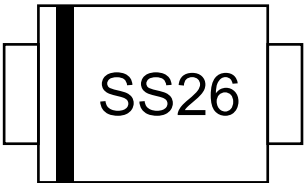


DIMENSIONS (mm are the original dimensions)

Symbol	A	b	C	D	E	F	L
Min	1.30	2.40	3.3	1.10	0.18	1.0	4.40
Max	1.60	2.70	3.7	1.30	0.23	1.30	4.90



7 .Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW SS22F	SS22	SMAF	3000	Tape and reel
UMW SS24F	SS24	SMAF	3000	Tape and reel
UMW SS26F	SS26	SMAF	3000	Tape and reel
UMW SS28F	SS28	SMAF	3000	Tape and reel
UMW SS210F	SS210	SMAF	3000	Tape and reel
UMW SS212F	SS212	SMAF	3000	Tape and reel
UMW SS215F	SS215	SMAF	3000	Tape and reel
UMW SS220F	SS220	SMAF	3000	Tape and reel



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