SS2FH6

AUTOMOTIVE

Available

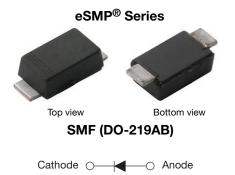
RoHS

COMPLIANT

HALOGEN

FREE

Surface Mount Schottky Barrier Rectifiers



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DESIGN SUPPORT TOOLS



PRIMARY CHARACTERISTICS							
I _{F(AV)}	2.0 A						
V _{RRM}	60 V						
I _{FSM}	40 A						
V_F at I_F = 2.0 A (T_A = 125 °C)	0.64 V						
T _J max.	175 °C						
Package	SMF (DO-219AB)						
Circuit configuration	Single						

FEATURES

- Low profile package
- · Ideal for automated placement
- · Low forward voltage drop, low power losses
- Low leakage current
- MSL level 1, per Meets J-STD-020, LF maximum peak of 260 °C
- · Wave and reflow solderable
- AEC-Q101 gualified available Automotive ordering code: base P/NHM3
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

TYPICAL APPLICATIONS

For use in high frequency inverters, freewheeling, DC/DC converters, and polarity protection in commercial, industrial, and automotive applications.

MECHANICAL DATA

Case: SMF (DO-219AB) Molding compound meets UL 94 V-0 flammability rating Base P/N-M3 - halogen-free, RoHS-compliant Base P/NHM3 - halogen-free, RoHS-compliant, and AEC-Q101 qualified

Terminals: matte tin plated leads, solderable per J-STD-002 and JESD 22-B102

M3 and HM3 suffix meets JESD 201 class 2 whisker test

Polarity: color band denotes the cathode end

MAXIMUM RATINGS ($T_A = 25 \text{ °C}$ unless otherwise noted)							
PARAMETER	SYMBOL	SS2FH6	UNIT				
Device marking code		26					
Maximum repetitive peak reverse voltage	V _{RRM}	60	V				
Maximum average forward rectified current (fig.1)	I _{F(AV)} ⁽¹⁾	2.0	А				
Peak forward surge current 8.3 ms single half sine-wave $T_{J (init)} = 25 ^{\circ}\text{C}$	I _{FSM}	40	А				
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +175	°C				

Note

⁽¹⁾ Free air, mounted on recommended copper pad area



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SS2FH6

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ELECTRICAL CHARACTERISTICS ($T_A = 25 \text{ °C}$ unless otherwise noted)								
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT		
Instantaneous forward voltage	I _F = 1.6 A	T₄ = 25 °C		0.69	-	V		
	I _F = 2.0 A	$T_{A} = 25$ C	V _E (1)	0.72	0.78			
	I _F = 1.6 A	T _A = 125 °C	VF ()	0.61	-			
	I _F = 2.0 A			0.64	0.69			
Reverse current	V 60.V	T _A = 25 °C	I _B ⁽²⁾	-	3	μA		
	V _R = 60 V	T _A = 125 °C	IR (=/	90	450			
Typical junction capacitance	4.0 V, 1 MHz	•	CJ	90	-	pF		

Notes

⁽¹⁾ Pulse test: 300 µs pulse width, 1 % duty cycle

⁽²⁾ Pulse test: Pulse width \leq 5 ms

THERMAL CHARACTERISTICS ($T_A = 25$ °c unless otherwise noted)							
PARAMETER	SYMBOL	SS2FH6	UNIT				
	R _{0JA} (1)(2)(3)	125	°C/W				
Typical thermal resistance	R _{0JM} (1)(2)(3)	21	0/10				

Notes

 $^{(1)}$ The heat generated must be less than the thermal conductivity from junction-to-ambient: dP_D/dT_J<1/R_{0JA}

⁽²⁾ Device mounted on FR4 PCB, 2 oz. standard footprint

 $^{(3)}$ Thermal resistance $R_{\theta JA}$ - junction to ambient; $R_{\theta JM}^{}$ - junction to mount

ORDERING INFORMATION (Example)									
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE					
SS2FH6-M3/H	0.015	Н	3000	7" diameter plastic tape and reel					
SS2FH6-M3/I	0.015	I	10 000	13" diameter plastic tape and reel					
SS2FH6HM3/H (1)	0.015	н	3000	7" diameter plastic tape and reel					
SS2FH6HM3/I ⁽¹⁾	0.015	l	10 000	13" diameter plastic tape and reel					

Note

(1) AEC-Q101 qualified



RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

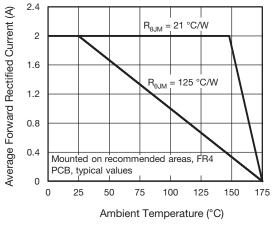
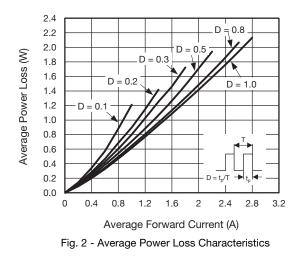
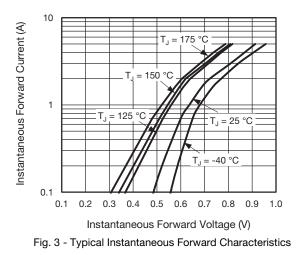


Fig. 1 - Maximum Forward Current Derating Curve





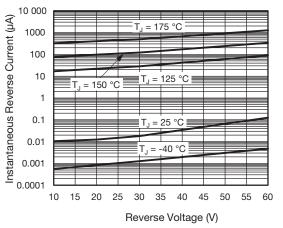


Fig. 4 - Typical Reverse Leakage Characteristics

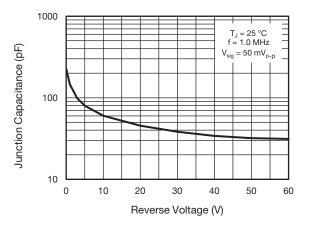
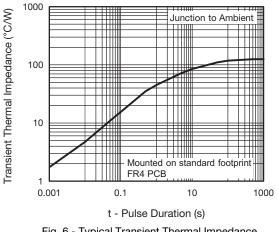


Fig. 5 - Typical Junction Capacitance





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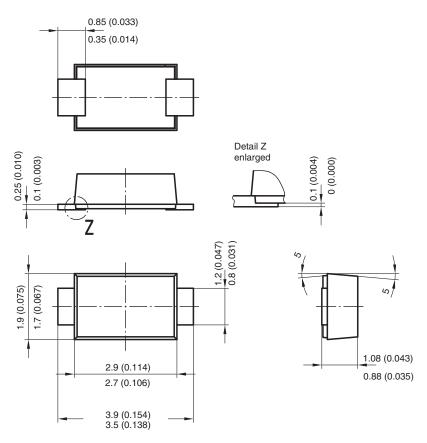
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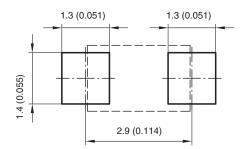
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PACKAGE OUTLINE DIMENSIONS in millimeters (inches)



Foot print recommendation:

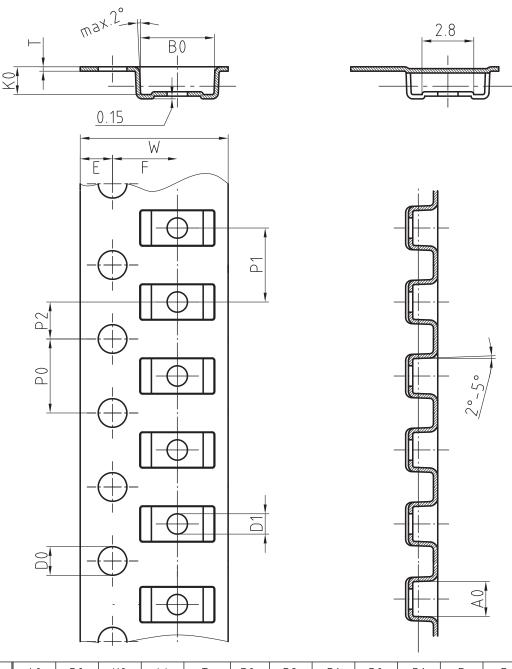


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BLISTERTAPE DIMENSIONS in millimeters: SMF (DO-219AB)



Mat:	A0	B0	K0	W	Т	P0	P2	P1	D0	D1	E	F
PS	1.9	4.0	1.5	8.0	0.235	4.0	2.0	4.0	1.5	1	1.75	3.5

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