New Product

MSS1P5 & MSS1P6

Vishay General Semiconductor

Surface Mount Schottky Barrier Rectifiers



PRIMARY CHARACTERISTICS					
I _{F(AV)}	1.0 A				
V _{RRM}	50 V, 60 V				
I _{FSM}	25 A				
V _F at I _F = 1.0 A	0.52 V				
T _J max.	150 °C				

TYPICAL APPLICATIONS

For use in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.

FEATURES

- Very low profile typical height of 0.68 mm
- Ideal for automated placement
- Low forward voltage drop, low power losses
 COMPLIANT
 COMPLIANT
- High efficiency
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- Halogen-free

MECHANICAL DATA

Case: MicroSMP

Molding compound meets UL 94V-0 flammability rating.

Base P/N-E3 - RoHS compliant, commercial grade

Base $\ensuremath{\text{P/N-M3}}$ - halogen-free and RoHS compliant, commercial grade

Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22-B102

E3 and M3 suffix meets JESD 201 class 1A whisker test

Polarity: Color band denotes the cathode end

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	MSS1P5	MSS1P6	UNIT	
Device marking code		15	16		
Maximum repetitive peak reverse voltage	V _{RRM}	50	60	V	
Maximum average forward rectified current (Fig. 1)	I _{F(AV)}	1.0		А	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	25		А	
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150		°C	

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HALOGEN

FREE



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ELECTRICAL CHARACTERISTICS ($T_A = 25 \degree C$ unless otherwise noted)						
PARAMETER	TEST C	TEST CONDITIONS		TYP.	MAX.	UNIT
Maximum instantaneous forward voltage ⁽¹⁾	I _F = 0.5 A I _F = 1.0 A	T _J = 25 °C	V _F	0.45 0.56	- 0.68	V
	I _F = 0.5 A I _F = 1.0 A	T _J = 125 °C		0.40 0.52	- 0.60	
Maximum reverse current (2)	rated V _R	T _J = 25 °C T _J = 125 °C	I _R	20 7.0	150 12	μA mA
Typical junction capacitance	4.0 V, 1 MH	4.0 V, 1 MHz		40	-	pF

Notes:

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

(2) Pulse test: Pulse width \leq 40 ms

THERMAL CHARACTERISTICS ($T_A = 25 \degree C$ unless otherwise noted)					
PARAMETER	SYMBOL	MSS1P5	MSS1P6	UNIT	
Typical thermal resistance ⁽¹⁾	${f R}_{ heta JA} \ {f R}_{ heta JL} \ {f R}_{ heta JC}$	125 30 40		°C/W	

Note:

(1) Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 6.0 x 6.0 mm copper pad areas R_{0JL} is measured at the terminal of cathode band. R_{0JC} is measured at the top center of the body

ORDERING INFORMATION (Example)						
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE		
MSS1P6-E3/89A	0.006	89A	4500	7" diameter plastic tape and reel		
MSS1P6-M3/89A	0.006	89A	4500	7" diameter plastic tape and reel		

RATINGS AND CHARACTERISTICS CURVES

(T_A = 25 °C unless otherwise noted)

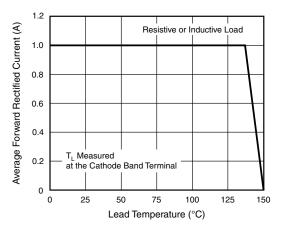


Figure 1. Maximum Forward Current Derating Curve

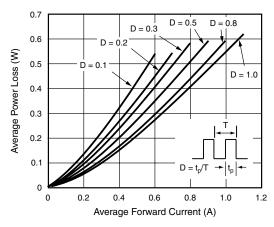


Figure 2. Forward Power Loss Characteristics

For technical questions within your region, please contact one of the following: <u>PDD-Americas@vishay.com</u>, <u>PDD-Asia@vishay.com</u>, <u>PDD-Europe@vishay.com</u>



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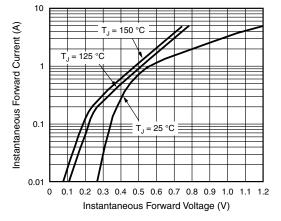
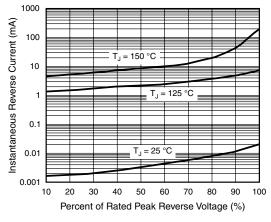
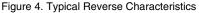


Figure 3. Typical Instantaneous Forward Characteristics





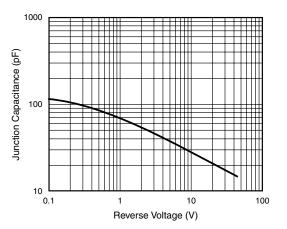


Figure 5. Typical Junction Capacitance

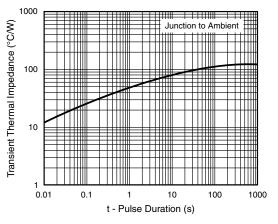
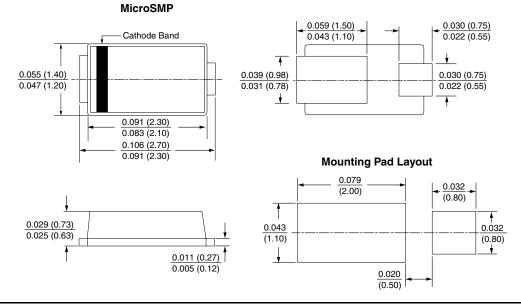


Figure 6. Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



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