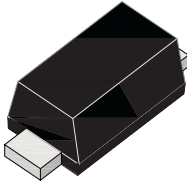




1.0 Amp. Surface Mount Schottky Barrier Rectifier

DO-219AA / M1F 	Voltage 20 V to 150 V	Current 1.0 A	
	FEATURES <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Low power losses, high efficiency • High surge current capability • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		  RoHS COMPLIANT
	MECHANICAL DATA <ul style="list-style-type: none"> • Case: DO-219AA / M1F. Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test 		
	TYPICAL APPLICATIONS Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.		

Maximum Ratings and Electrical Characteristics at 25 °C

		FSS12L	FSS13L	FSS14L	FSS16L	FSS110L	FSS115L
Marking Code		L12	L13	L14	L16	LX0	LX5
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	30	40	60	100	150
V_{RMS}	Maximum RMS Voltage (V)	14	21	28	42	70	105
V_{DC}	Maximum DC Blocking Voltage (V)	20	30	40	60	100	150
$I_{(AV)}$	Maximum Average Forward Rectified Current	1.0 A					
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	30 A					
V_F	Maximum Instantaneous Forward Voltage (Note 1) @ 0.5A @ 1.0A	0.385 V	0.43 V	0.51 V	0.58 V	0.70 V	0.75 V
		0.45 V	0.50 V	0.55 V	0.70 V	0.80 V	0.90 V
I_R	Maximum DC Reverse Current @ $T_j = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_j = 100\text{ °C}$ (Note 3)	0.4 mA				0.05 mA	
		8.0 mA	6.0 mA			0.5 mA	
$R_{th(j-a)}$	Maximum Thermal Resistance (Note 2)	100 °C/W					
$R_{th(j-c)}$		45 °C/W					
T_j	Operating Temperature Range	-55 to + 125 °C			-55 to + 150 °C		
T_{stg}	Storage Temperature Range	-55 to + 150 °C					

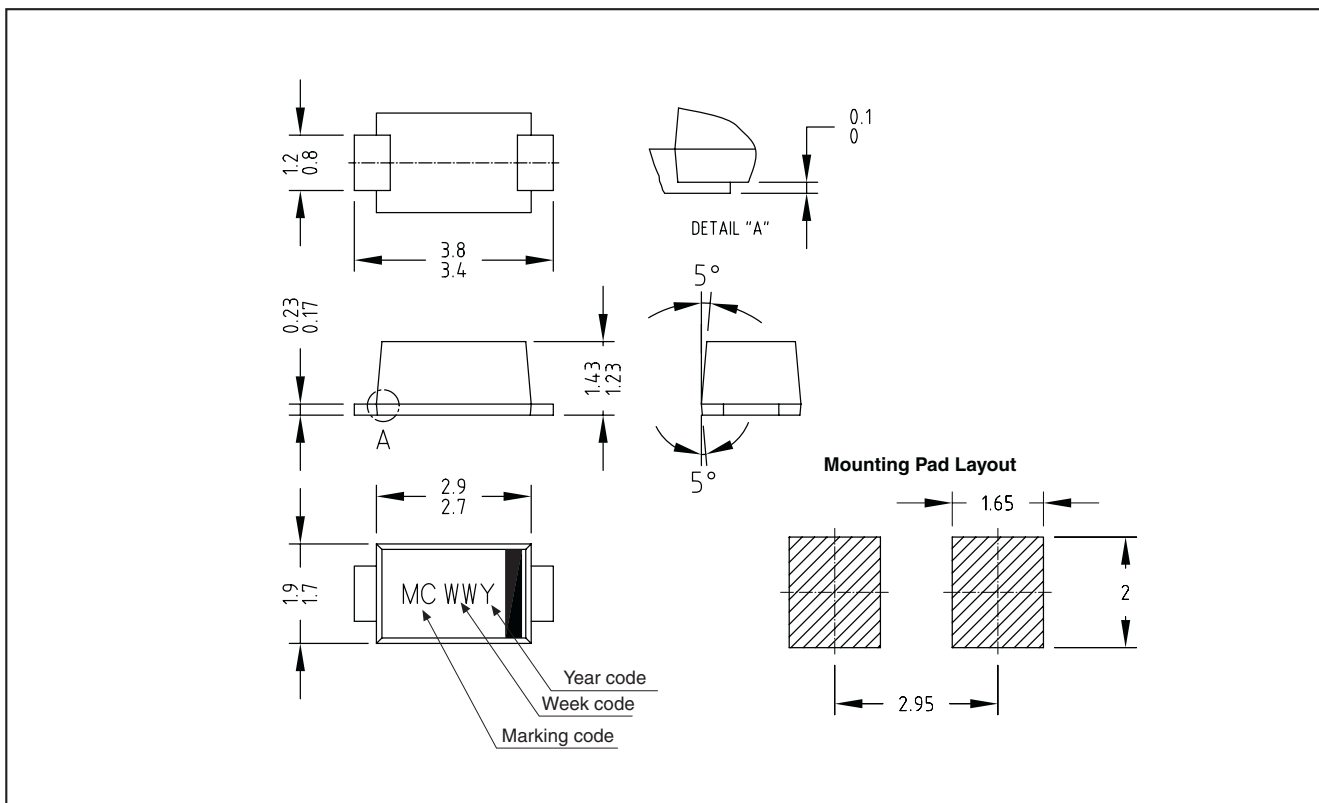
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

1.0 Amp. Surface Mount Schottky Barrier Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FSS16L TRTB	TRTB	13" diameter tape and reel	7,500	0.0196
FSS16L TRTS	TRTS	8" diameter tape and reel	1,800	0.0196

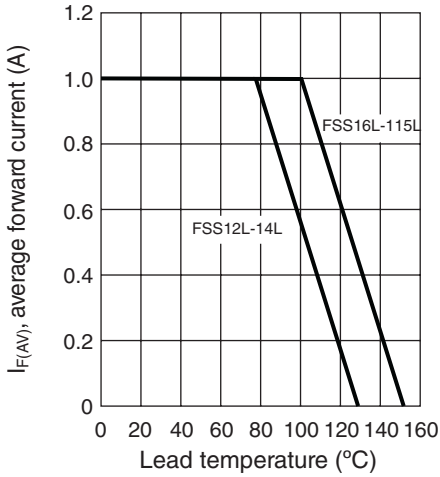
Package Outline Dimensions: (mm) DO-219AA / M1F



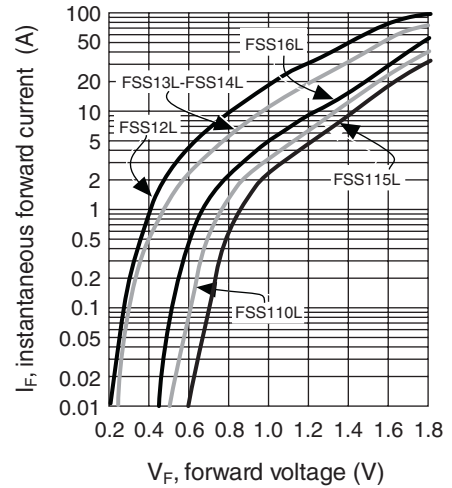
1.0 Amp. Surface Mount Schottky Barrier Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)

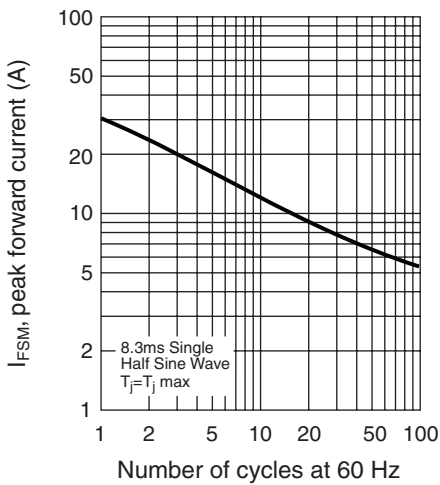
MAXIMUM FORWARD CURRENT DERATING CURVE



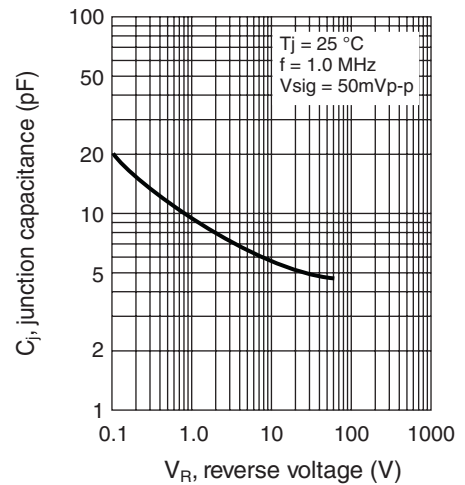
TYPICAL FORWARD CHARACTERISTICS



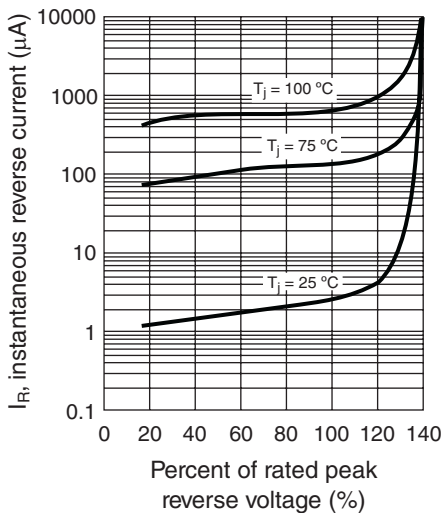
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



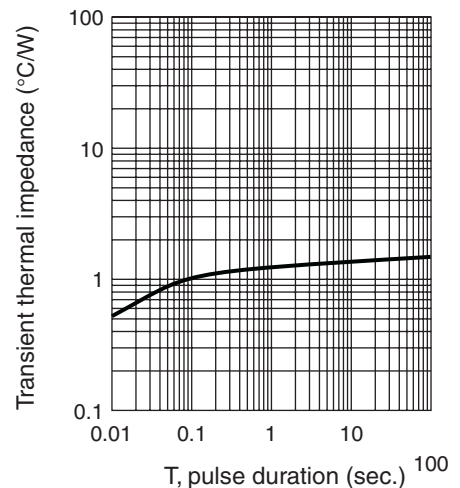
TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS



TYPICAL TRANSIENT THERMAL IMPEDANCE



1.0 Amp. Surface Mount Schottky Barrier Rectifier

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