

# SZSMF4L Series

## Automotive, Surface Mount 400 W in SOD-123FL

**PRELIMINARY & CONFIDENTIAL**

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### Description

The SZSMF4L series is designed to protect sensitive systems or components from high voltage, high energy transients. It offers a fast response time, low zener impedance, high surge and excellent clamping capabilities. Because of its small size, it is ideal for use in automotive electronics applications

### Maximum Ratings & Thermal Characteristics

Parameter	Symbol	Value	Unit
Maximum $P_{PK}$ dissipation (PW=10/1000 $\mu$ s) (Note 1)	$P_{PK}$	400	W
DC power dissipation @ $T_A = 25^\circ\text{C}$ (Note 2) derate Above $25^\circ\text{C}$	$P_D$	385	mW
		4.0	mW/ $^\circ\text{C}$
Thermal resistance from junction to ambient (Note 2)	$R_{\theta JA}$	325	$^\circ\text{C}/\text{W}$
Thermal resistance from junction to lead (Note 3)	$R_{\theta JL}$	26	$^\circ\text{C}/\text{W}$
Operating and storage temperature range	$T_J, T_{stg}$	-55 to +175	$^\circ\text{C}$

Stresses exceeding maximum ratings may damage the component. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect component reliability.

1. Non-repetitive current pulse at  $T_A = 25^\circ\text{C}$
2. Mounted with recommended minimum pad size, DC board FR-4.
3. 1/2 sine wave (or equivalent square wave), PW = 8.3 ms, duty cycle = 4 pulses per minute maximum.

### Features

- Zener transient overvoltage suppressors
- Working peak reverse voltage range 5 V to 78 V for uni-directional and 10 V to 78 V for bi-directional
- Peak power: 400 watts @ 1 ms
- Planar chip design with low leakage current performance
- Response time is typically < 1 ns
- ESD rating of class 3 (> 16 kV) per human body model
- IEC-61000-4-2 ESD 30 kV(Air), 30 kV (Contact)
- Lead orientation in tape: cathode lead to sprocket holes
- These components are Pb-free and are RoHS compliant
- SZ prefix for automotive and other applications requiring control change requirements; AEC-Q101 qualified and PPAP capable

### Functional Diagram



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### Electrical Characteristics

Part Number (Uni)	Part Number (Bi)	Marking		Working Peak Reverse Voltage $V_{RWM}$ (V) (Note 4)	Breakdown Voltage $V_{BR}$ (V) @ $I_T$ (Note 5)		Test Current $I_T$ (mA)	Maximum Clamping Voltage $V_C$ @ $I_{PP}$ (V)	Maximum Peak Pulse Current $I_{PP}$ (A)	Maximum Reverse Leakage $I_R$ @ $V_R$ ( $\mu$ A)
		Uni	Bi		Min	Max				
SZSMF4L5.0AT1G	-	QE	-	5.0	6.40	7.00	10	9.2	43.5	50
SZSMF4L6.0AT1G	-	QG	-	6.0	6.67	7.37	10	10.3	38.8	50
SZSMF4L6.5AT1G	-	QK	-	6.5	7.22	7.98	10	11.2	35.7	40
SZSMF4L7.0AT1G	-	QL	-	7.0	7.78	8.60	10	12.0	33.3	40
SZSMF4L7.5AT1G	-	QN	-	7.5	8.33	9.21	1	12.9	31.0	30
SZSMF4L8.0AT1G	-	QR	-	8.0	8.89	9.83	1	13.6	29.4	5
SZSMF4L8.5AT1G	-	QT	-	8.5	9.44	10.40	1	14.4	27.8	5
SZSMF4L9.0AT1G	-	QV	-	9.0	10.00	11.10	1	15.4	26.0	2
SZSMF4L10AT1G	SZSMF4L10CAT1G	QX	QXC	10	11.10	12.30	1	17.0	23.5	2
SZSMF4L11AT1G	SZSMF4L11CAT1G	QZ	QZC	11	12.20	13.50	1	18.2	22.0	2
SZSMF4L12AT1G	SZSMF4L12CAT1G	RE	REC	12	13.30	14.70	1	19.9	20.1	1
SZSMF4L13AT1G	SZSMF4L13CAT1G	RG	RGC	13	14.40	15.90	1	21.5	18.6	1
SZSMF4L14AT1G	SZSMF4L14CAT1G	RH	RHC	14	15.60	17.20	1	23.2	17.2	0.5
SZSMF4L15AT1G	SZSMF4L15CAT1G	RM	RMC	15	16.70	18.50	1	24.4	16.4	0.5
SZSMF4L16AT1G	SZSMF4L16CAT1G	RP	RPC	16	17.80	19.70	1	26.0	15.4	0.5
SZSMF4L17AT1G	SZSMF4L17CAT1G	RR	RRC	17	18.90	20.90	1	27.6	14.5	0.5
SZSMF4L18AT1G	SZSMF4L18CAT1G	RT	RTC	18	20.00	22.10	1	29.2	13.7	0.5
SZSMF4L20AT1G	SZSMF4L20CAT1G	RV	RVC	20	22.20	24.50	1	32.4	12.3	0.5
SZSMF4L22AT1G	SZSMF4L22CAT1G	RX	RXC	22	24.40	26.90	1	35.5	11.3	0.5
SZSMF4L24AT1G	SZSMF4L24CAT1G	RZ	RZC	24	26.70	29.50	1	38.9	10.3	0.5
SZSMF4L26AT1G	SZSMF4L26CAT1G	SE	SEC	26	28.90	31.90	1	42.1	9.5	0.5
SZSMF4L28AT1G	SZSMF4L28CAT1G	SG	SGC	28	31.10	34.40	1	45.4	8.8	0.5
SZSMF4L30AT1G	SZSMF4L30CAT1G	SK	SKC	30	33.30	36.80	1	48.4	8.3	0.5
SZSMF4L33AT1G	SZSMF4L33CAT1G	SM	SMC	33	36.70	40.60	1	53.3	7.5	0.5
SZSMF4L36AT1G	SZSMF4L36CAT1G	SP	SPC	36	40.00	44.20	1	58.1	6.9	0.5
SZSMF4L40AT1G	SZSMF4L40CAT1G	SR	SRC	40	44.40	49.10	1	64.5	6.2	0.5
SZSMF4L43AT1G	SZSMF4L43CAT1G	ST	STC	43	47.80	52.80	1	69.4	5.8	0.5
SZSMF4L45AT1G	SZSMF4L45CAT1G	SV	SVC	45	50.00	55.30	1	72.7	5.5	0.5
SZSMF4L48AT1G	SZSMF4L48CAT1G	SX	SXC	48	53.30	58.90	1	77.4	5.2	0.5
SZSMF4L51AT1G	SZSMF4L51CAT1G	SZ	SZC	51	56.70	62.70	1	82.4	4.9	0.5
SZSMF4L54AT1G	SZSMF4L54CAT1G	TE	TEC	54	60.00	66.30	1	87.1	4.6	0.5
SZSMF4L58AT1G	SZSMF4L58CAT1G	TG	TGC	58	64.40	71.20	1	93.6	4.3	0.5
SZSMF4L60AT1G	SZSMF4L60CAT1G	TI	TIC	60	66.70	73.70	1	96.8	4.1	0.5
SZSMF4L64AT1G	SZSMF4L64CAT1G	TM	TMC	64	71.10	78.60	1	103.0	3.9	0.5
SZSMF4L70AT1G	SZSMF4L70CAT1G	TP	TPC	70	77.80	86.00	1	113.0	3.5	0.5
SZSMF4L75AT1G	SZSMF4L75CAT1G	TR	TRC	75	83.30	92.10	1	121.0	3.3	0.5
SZSMF4L78AT1G	SZSMF4L78CAT1G	TT	TTC	78	86.70	95.80	1	126.0	3.2	0.5

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		Uni	Bi		Min	Max				
SZSMF4L5.0AT3G	-	QE	-	5.0	6.40	7.00	10	9.2	43.5	50
SZSMF4L6.0AT3G	-	QG	-	6.0	6.67	7.37	10	10.3	38.8	50
SZSMF4L6.5AT3G	-	QK	-	6.5	7.22	7.98	10	11.2	35.7	40
SZSMF4L7.0AT3G	-	QL	-	7.0	7.78	8.60	10	12.0	33.3	40
SZSMF4L7.5AT3G	-	QN	-	7.5	8.33	9.21	1	12.9	31.0	30
SZSMF4L8.0AT3G	-	QR	-	8.0	8.89	9.83	1	13.6	29.4	5
SZSMF4L8.5AT3G	-	QT	-	8.5	9.44	10.40	1	14.4	27.8	5
SZSMF4L9.0AT3G	-	QV	-	9.0	10.00	11.10	1	15.4	26.0	2
SZSMF4L10AT3G	SZSMF4L10CAT3G	QX	QXC	10	11.10	12.30	1	17.0	23.5	2
SZSMF4L11AT3G	SZSMF4L11CAT3G	QZ	QZC	11	12.20	13.50	1	18.2	22.0	2
SZSMF4L12AT3G	SZSMF4L12CAT3G	RE	REC	12	13.30	14.70	1	19.9	20.1	1
SZSMF4L13AT3G	SZSMF4L13CAT3G	RG	RGC	13	14.40	15.90	1	21.5	18.6	1
SZSMF4L14AT3G	SZSMF4L14CAT3G	RH	RHC	14	15.60	17.20	1	23.2	17.2	0.5
SZSMF4L15AT3G	SZSMF4L15CAT3G	RM	RMC	15	16.70	18.50	1	24.4	16.4	0.5
SZSMF4L16AT3G	SZSMF4L16CAT3G	RP	RPC	16	17.80	19.70	1	26.0	15.4	0.5
SZSMF4L17AT3G	SZSMF4L17CAT3G	RR	RRC	17	18.90	20.90	1	27.6	14.5	0.5
SZSMF4L18AT3G	SZSMF4L18CAT3G	RT	RTC	18	20.00	22.10	1	29.2	13.7	0.5
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SZSMF4L22AT3G	SZSMF4L22CAT3G	RX	RXC	22	24.40	26.90	1	35.5	11.3	0.5
SZSMF4L24AT3G	SZSMF4L24CAT3G	RZ	RZC	24	26.70	29.50	1	38.9	10.3	0.5
SZSMF4L26AT3G	SZSMF4L26CAT3G	SE	SEC	26	28.90	31.90	1	42.1	9.5	0.5
SZSMF4L28AT3G	SZSMF4L28CAT3G	SG	SGC	28	31.10	34.40	1	45.4	8.8	0.5
SZSMF4L30AT3G	SZSMF4L30CAT3G	SK	SKC	30	33.30	36.80	1	48.4	8.3	0.5
SZSMF4L33AT3G	SZSMF4L33CAT3G	SM	SMC	33	36.70	40.60	1	53.3	7.5	0.5
SZSMF4L36AT3G	SZSMF4L36CAT3G	SP	SPC	36	40.00	44.20	1	58.1	6.9	0.5
SZSMF4L40AT3G	SZSMF4L40CAT3G	SR	SRC	40	44.40	49.10	1	64.5	6.2	0.5
SZSMF4L43AT3G	SZSMF4L43CAT3G	ST	STC	43	47.80	52.80	1	69.4	5.8	0.5
SZSMF4L45AT3G	SZSMF4L45CAT3G	SV	SVC	45	50.00	55.30	1	72.7	5.5	0.5
SZSMF4L48AT3G	SZSMF4L48CAT3G	SX	SXC	48	53.30	58.90	1	77.4	5.2	0.5
SZSMF4L51AT3G	SZSMF4L51CAT3G	SZ	SZC	51	56.70	62.70	1	82.4	4.9	0.5
SZSMF4L54AT3G	SZSMF4L54CAT3G	TE	TEC	54	60.00	66.30	1	87.1	4.6	0.5
SZSMF4L58AT3G	SZSMF4L58CAT3G	TG	TGC	58	64.40	71.20	1	93.6	4.3	0.5
SZSMF4L60AT3G	SZSMF4L60CAT3G	TI	TIC	60	66.70	73.70	1	96.8	4.1	0.5
SZSMF4L64AT3G	SZSMF4L64CAT3G	TM	TMC	64	71.10	78.60	1	103.0	3.9	0.5
SZSMF4L70AT3G	SZSMF4L70CAT3G	TP	TPC	70	77.80	86.00	1	113.0	3.5	0.5
SZSMF4L75AT3G	SZSMF4L75CAT3G	TR	TRC	75	83.30	92.10	1	121.0	3.3	0.5
SZSMF4L78AT3G	SZSMF4L78CAT3G	TT	TTC	78	86.70	95.80	1	126.0	3.2	0.5

4. A transient suppressor is normally selected according to the working peak reverse voltage ( $V_{RWM}$ ), which should be equal to or greater than the DC or continuous peak operating voltage level

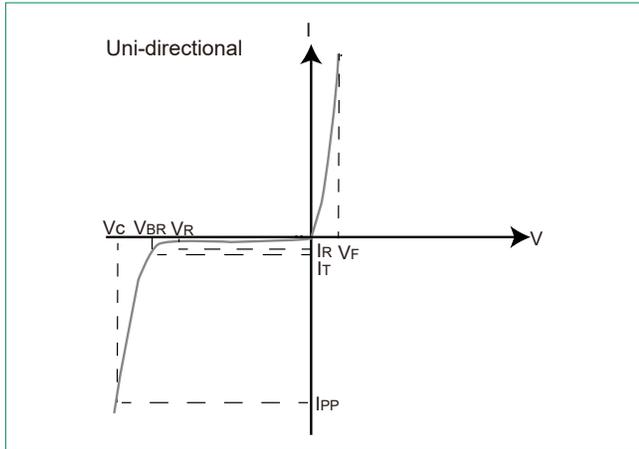
5.  $V_{BR}$  measured at pulse test current  $I_T$  at an ambient temperature of 25 °C

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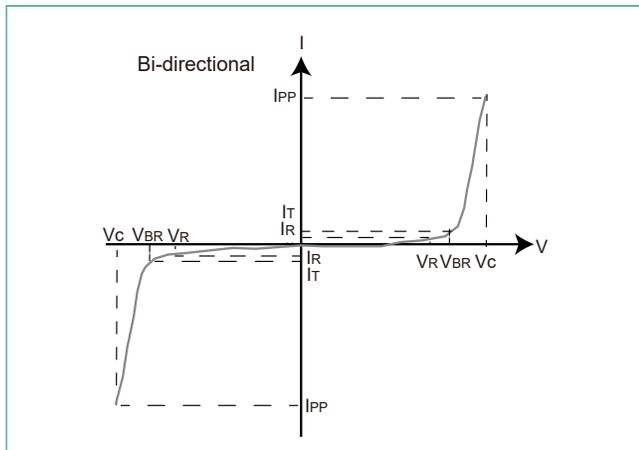
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**I-V Curve Characteristics ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted,  $V_F = 3.5\text{ V Max. @ } I_F = 30\text{ A}$ )\* For Uni-directional**

Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Breakdown Current Current
$V_F$	Forward Voltage @ $I_F$
$I_F$	Forward Current

\*1/2 sine wave (or equivalent square wave), PW = 8.3 ms, non-repetitive duty cycle.

**I-V Curve Characteristics ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted) For Bi-directional**

Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Breakdown Current Current

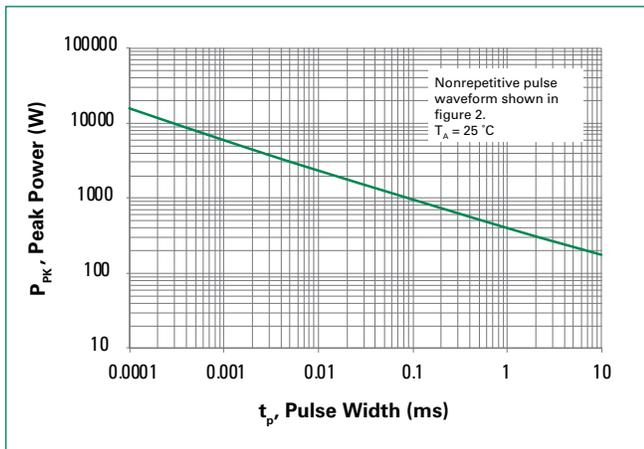
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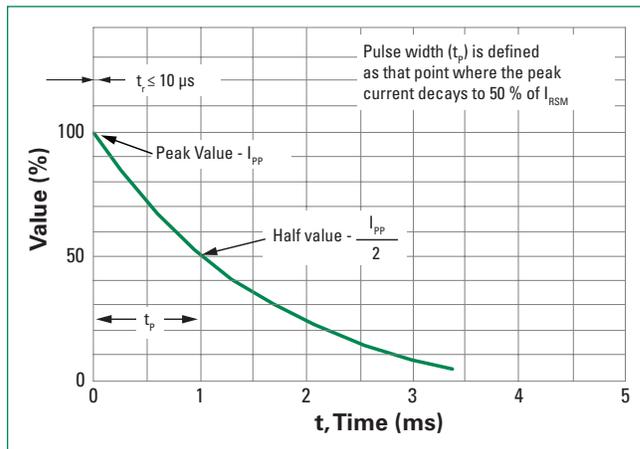
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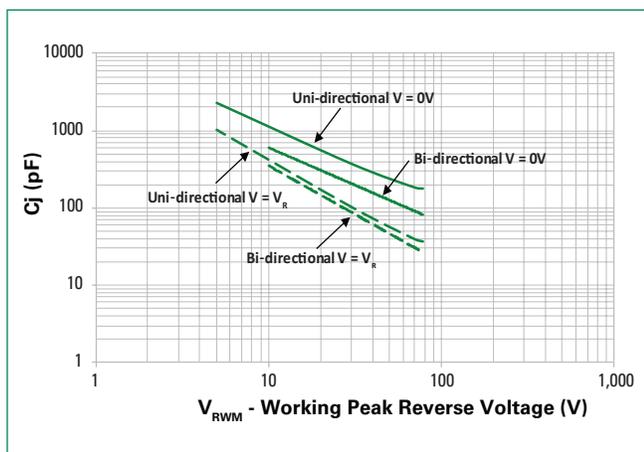
**Figure 1. Pulse Rating Curve**



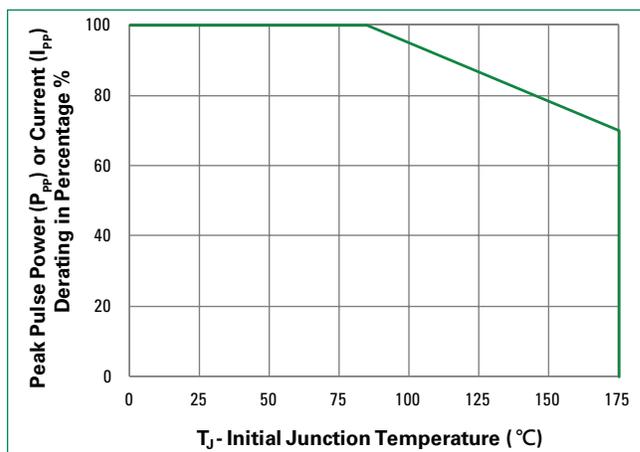
**Figure 2. 10/1000  $\mu$ s Pulse Waveform**



**Figure 3. Typical Junction Capacitance vs. Bias Voltage**



**Figure 4. Surge Derating Curve**



**SZSMF4L Series**

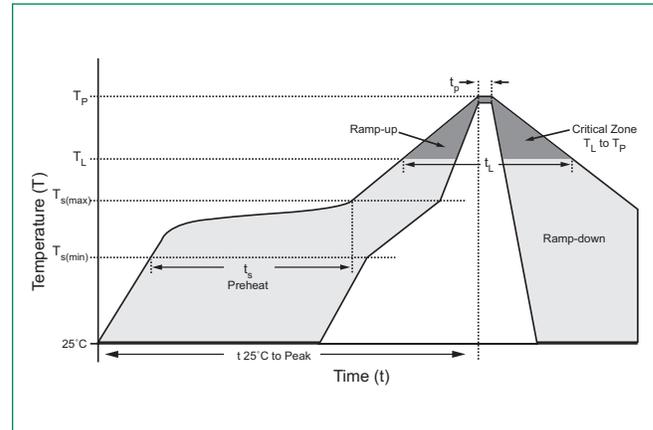
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**Soldering Parameters**

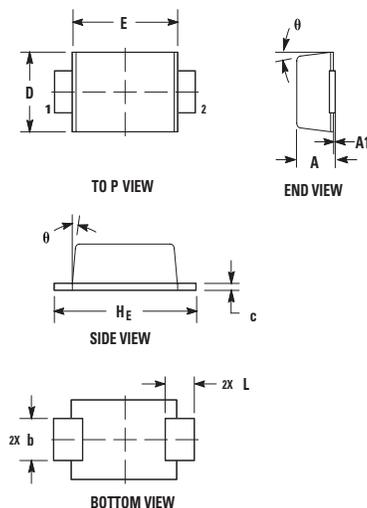
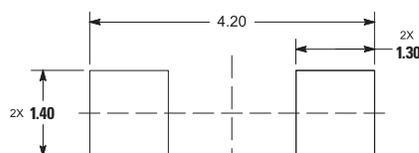
<b>Reflow condition</b>		Lead-free assembly
<b>Pre heat</b>	- Temperature min ( $T_{s(min)}$ )	150 °C
	- Temperature max ( $T_{s(max)}$ )	200 °C
	- Time (min to max) ( $t_s$ )	60 – 120 seconds
<b>Average Ramp up rate (Liquidus temp (<math>T_L</math>) to peak)</b>		3 °C/second max
<b><math>T_{s(max)}</math> to <math>T_L</math> - Ramp-up rate</b>		3 °C/second max
<b>Reflow</b>	- Temperature ( $T_L$ ) (Liquidus)	217 °C
	- Time (min to max) ( $t_s$ )	60 - 150 seconds
<b>Peak temperature (<math>T_p</math>)</b>		260 $\pm 0.5$ °C
<b>Time within 5 °C of actual peak temperature (<math>t_p</math>)</b>		30 seconds max
<b>Ramp-down rate</b>		6 °C/second max
<b>Time 25 °C to peak temperature (<math>T_p</math>)</b>		8 minutes max
<b>Do not exceed</b>		260 °C

**Physical Specifications**

<b>Weight</b>	0.006 ounce, 0.0171 grams
<b>Case</b>	JEDEC SOD-123FL
<b>Polarity</b>	Color band denotes cathode for unidirectional components
<b>Terminal</b>	Matte Tin-plated leads, solderable per JESD22-B102

**Environmental Specifications**

<b>High temperature storage</b>	JESD22-A103
<b>HTRB</b>	JESD22-A108
<b>Temperature cycling</b>	JESD22-A104
<b>MSL</b>	JEDEC-J-STD-020, Level 1
<b>H3TRB</b>	JESD22-A101
<b>RSH</b>	JESD22-A111

**Dimensions****Soldering Footprint**

Dimensions: Millimeters

Dim	Millimeters			Inches		
	Min	Nom	Max	Min	Nom	Max
A	1.20	1.30	1.40	0.047	0.051	0.055
A1	0.00	0.05	0.10	0	0.002	0.004
b	1.10	1.20	1.30	0.043	0.047	0.051
c	0.10	0.17	0.25	0.004	0.007	0.01
D	2.25	2.35	2.45	0.089	0.093	0.096
E	3.25	3.35	3.45	0.128	0.132	0.136
L	0.35	0.47	0.60	0.014	0.019	0.024
HE	3.75	3.85	3.95	0.148	0.152	0.156
Theta	2°	–	8°	2°	–	8°

**Packaging Options**

Device	Package	Packaging Option	Quantity
SZSMF4LxxXXT1G	SOD-123FL (Pb-Free)	Tape & Reel - 12 mm tape / 7" reel	1,500
SZSMF4LxxXXT3G	SOD-123FL (Pb-Free)	Tape & Reel - 12 mm tape / 13" reel	5,000

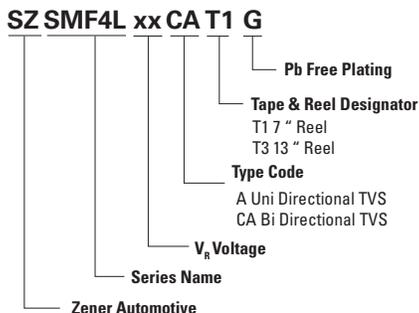
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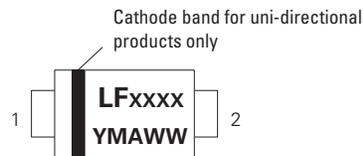
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### Part Numbering System

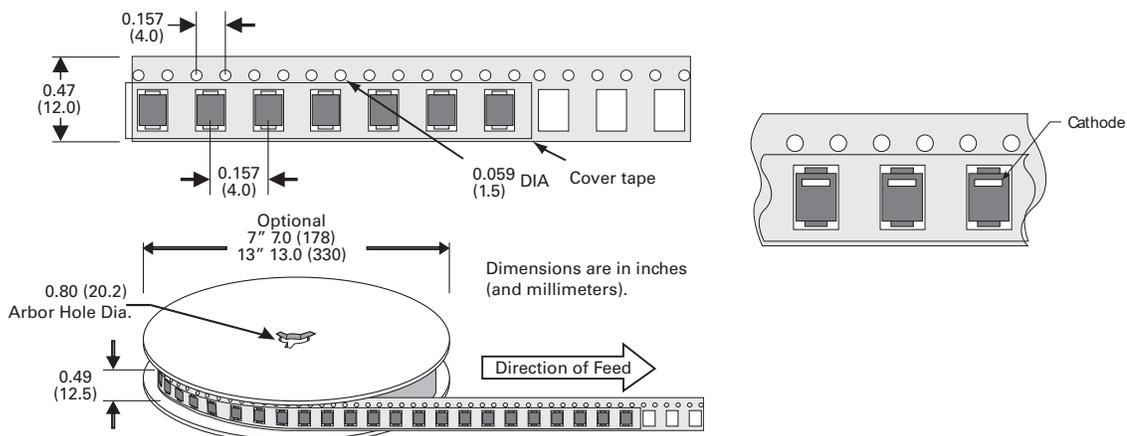


### Part Marking System



- XXX** = Device Code
- Y** = Year
- M** = Month
- A** = Assembly Location
- WW** = Lot Code

### Tape and Reel Specification



**Disclaimer Notice** - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at <http://www.littelfuse.com/disclaimer-electronics>.

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[SZSMF4L8.5AT3G](#) [SZSMF4L9.0AT3G](#) [SZSMF4L64CAT3G](#) [SZSMF4L7.0AT3G](#) [SZSMF4L7.5AT3G](#)  
[SZSMF4L70AT3G](#) [SZSMF4L70CAT3G](#) [SZSMF4L75AT3G](#) [SZSMF4L58CAT3G](#) [SZSMF4L6.0AT3G](#)  
[SZSMF4L6.5AT3G](#) [SZSMF4L60AT3G](#) [SZSMF4L60CAT3G](#) [SZSMF4L64AT3G](#) [SZSMF4L5.0AT3G](#) [SZSMF4L51AT3G](#)  
[SZSMF4L51CAT3G](#) [SZSMF4L54AT3G](#) [SZSMF4L54CAT3G](#) [SZSMF4L58AT3G](#) [SZSMF4L43AT3G](#)  
[SZSMF4L43CAT3G](#) [SZSMF4L45AT3G](#) [SZSMF4L45CAT3G](#) [SZSMF4L48AT3G](#) [SZSMF4L48CAT3G](#)  
[SZSMF4L33AT3G](#) [SZSMF4L33CAT3G](#) [SZSMF4L36AT3G](#) [SZSMF4L36CAT3G](#) [SZSMF4L40AT3G](#)  
[SZSMF4L40CAT3G](#) [SZSMF4L26AT3G](#) [SZSMF4L26CAT3G](#) [SZSMF4L28AT3G](#) [SZSMF4L28CAT3G](#)  
[SZSMF4L30AT3G](#) [SZSMF4L30CAT3G](#) [SZSMF4L20AT3G](#) [SZSMF4L20CAT3G](#) [SZSMF4L22AT3G](#)  
[SZSMF4L22CAT3G](#) [SZSMF4L24AT3G](#) [SZSMF4L24CAT3G](#) [SZSMF4L16AT3G](#) [SZSMF4L16CAT3G](#)  
[SZSMF4L17AT3G](#) [SZSMF4L17CAT3G](#) [SZSMF4L18AT3G](#) [SZSMF4L18CAT3G](#) [SZSMF4L13AT3G](#)  
[SZSMF4L13CAT3G](#) [SZSMF4L14AT3G](#) [SZSMF4L14CAT3G](#) [SZSMF4L15AT3G](#) [SZSMF4L15CAT3G](#)  
[SZSMF4L10AT3G](#) [SZSMF4L10CAT3G](#) [SZSMF4L11AT3G](#) [SZSMF4L11CAT3G](#) [SZSMF4L12AT3G](#)  
[SZSMF4L12CAT3G](#) [SZSMF4L75CAT1G](#) [SZSMF4L78AT1G](#) [SZSMF4L78CAT1G](#) [SZSMF4L8.0AT1G](#)  
[SZSMF4L8.5AT1G](#) [SZSMF4L9.0AT1G](#) [SZSMF4L64CAT1G](#) [SZSMF4L7.0AT1G](#) [SZSMF4L7.5AT1G](#)  
[SZSMF4L70AT1G](#) [SZSMF4L70CAT1G](#) [SZSMF4L75AT1G](#) [SZSMF4L58CAT1G](#) [SZSMF4L6.0AT1G](#)  
[SZSMF4L6.5AT1G](#) [SZSMF4L60AT1G](#) [SZSMF4L60CAT1G](#) [SZSMF4L64AT1G](#) [SZSMF4L5.0AT1G](#) [SZSMF4L51AT1G](#)  
[SZSMF4L51CAT1G](#) [SZSMF4L54AT1G](#) [SZSMF4L54CAT1G](#) [SZSMF4L58AT1G](#) [SZSMF4L43AT1G](#)  
[SZSMF4L43CAT1G](#) [SZSMF4L45AT1G](#) [SZSMF4L45CAT1G](#)