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Bussmann[®]

3216FF

SMT Chip Fuse Subminiature Surface Mount Fuses





Catalog Symbol: 3216FF Voltage Rating: 32 Volt AC, 63 Volt DC (250mA-3A) 32 Volt AC, 32 Volt DC (4-6.5A)

Interrupting Rating: 50 Amp AC/DC

Physical Size:

EIA SOCM-3216AC (Equivalent to 1206) $3.2 \times 1.6 \times 0.90$ mm

 $0.126 \times 0.063 \times 0.035$ in.

Agency Approvals:

UL Recognized, Std. 248-14 All Ratings - File E19180, Guide JDYX2 CSA Certified:

1.5-3A - File 53787, Class 1422-01

CSA Component Acceptance 250mA,1A, 4-6.5A - File 53787, Class 1422-30

EIA-RS481 (equivalent to IEC 286, Part 3).

· Fuses are orientated in embossed pockets with ceramic side facing up to facilitate proper mounting (see "Electricatheet4 Time-Current Characteristics Characteristics", General Note 4.)

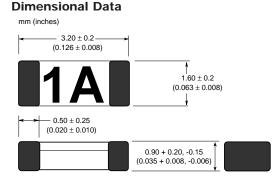


Package Code

TR/ 3,000 pcs., on a 178mm reel, 8mm tape width SP/ 50 pcs. on tape in a plastic box

TR1/ 15,000 pcs., on a 330mm reel, 8mm tape width

Electrical Characteristics



General Information:

- · Bussmann SMT Chip Fuses utilize metal film and ultrasonic wire bond technologies for superior fusing action and enhanced reliability.
- · The fuse element is bonded to a ceramic substrate and encapsulated with green-colored glass, providing excellent short-circuit performance and environmental integrity.
- Substrate and coating thermal expansion coefficients are closely matched to that of FR-4 epoxy-glass circuit board for superior joint reliability.
- The end terminations are over-plated with nickel and tinlead.

- · Fast acting fuse: Will carry 100% of rated current for a minimum of 4 hours, and will open within 5 seconds at 250% of rated current (250mA-3A).
- The 4-6.5A fuses will open within 1 second at 350% of rated current.

Packaging & Ordering Information:

• Tape and Reel: Standard 8mm tape, in compliance with

CE logo denotes compliance with European Union Low Voltage Directive (50-1000 VAC, 75-1500 VDC). Refer to BIF document #8002 or contact Bussmann Application Engineering at 636-527-1270 for more information.

Part Number (XX=Package Code)	Current Rating (Ampere)	Mark Appearing On Part	Typical Melting Integral @ 50A (A ² * sec)		Typical Total Clearing Integral @ 50A (A ² * sec)		Typ. Resistance @ ≤10% Rated Current (Ohms)	Typ. Voltage Drop @ Rated Current (Volts)
			AC	DC	AC	DC		
XX/3216FF-250mA	.250	.25	.00016	.000084	.00017	.0001	4.50	1.4
XX/3216FF-375mA	.375	White Dot	.001	.0002	.0010	.0009	1.80	.73
XX/3216FF-500mA	.500	0.5	.0014	.0019	.0016	.0026	1.15	.66
XX/3216FF-750mA	.750	.75	.0033	.00095	.0033	.0042	.75	.63
XX/3216FF-1A	1	1	.012	.007	.014	.009	.168	.20
XX/3216FF-1.5A	1.5	1.5	.047	.029	.048	.034	.098	.18
XX/3216FF-2A	2	2	.116	.081	.136	.092	.063	.16
XX/3216FF-25A	2.5	2.5	.208	.171	.210	.198	.046	.14
XX/3216FF-3A	3	3	.426	.359	.507	.369	.037	.13
XX/3216FF-4A	4	4	.187	.164	.208	.168	.019	.11
XX/3216FF-4.5A	4.5	4.5	.546	.463	.550	.47	.014	.10
XX/3216FF-6.5A	5	5	.663	.619	.668	.623	.013	.09
XX/3216FF-6.5A	6.5	6.5	2.18	3.21	2.21	3.23	.0085	.076

1. AC interrupting rating, melting integral and total clearing integral measured at 32V, unity power factor.

2. DC interrupting rating, melting integral and total clearing integral measured at 63V (250mA-3A) and 32V (4-6.5A), with a battery source

- Voltage drop measured at 23 ± 3°C ambient temperature with the device mounted on a suitable circuit board trace
 It is recommended that fuses be mounted with ceramic (white) side facing up.
- 5. Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended,

with further derating required at elevated ambient temperatures.

6. Contact Bussmann if higher ampere ratings are needed.

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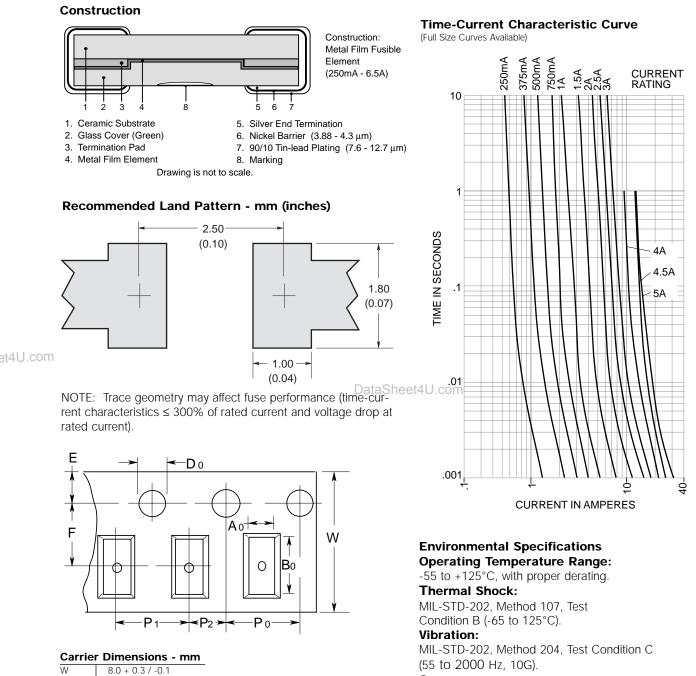
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Bussmann®

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SMT Chip Fuse Subminiature Surface Mount Fuses





Solderability:

Withstands 60 seconds above 200°C, 260°C maximum. Moisture Resistance: MIL-STD-202, Method 106, 10 day cycle. Solder Leach Resistance & Terminal Adhesion:

EIA-576.

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3.5 ± 0.05 1.75 ± 0.1

 2.0 ± 0.05

 4.0 ± 0.1

 4.0 ± 0.1

1.73 ± 0.2

3.56 ± 0.2

1.5 + 0.1 / -0.0

F P₂

Po

P1

A0

Bo

Do

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