



# FWJ 1000V 35-2000A

Type	Electrical Characteristics				Ordering Information			Dimensions	Curves	
	Rated Current RMS-Amps	I <sup>2</sup> t (A <sup>2</sup> Sec)		Watts Loss	Part Number	Carton Qty.	Carton Weight (lbs)	Figure Number	BIF #	
		Pre-arc	Clearing at 1000V							
FWJ 1000V	35	210	2000	7	FWJ-35A	10	4.18	Fig. 1	35785303	
	40	300	2500	8	FWJ-40A					
	50	470	3500	10	FWJ-50A					
	60	670	5000	11	FWJ-60A					
	70	1100	6900	12	FWJ-70A					
	80	1550	9700	13	FWJ-80A					
	90	1900	12000	14	FWJ-90A					
	100	2800	17500	15	FWJ-100A					
	125	4800	35000	16	FWJ-125A	1	4.40			35785309
	150	6300	45000	25	FWJ-150A					
	175	7500	65000	30	FWJ-175A					
	200	11700	80000	32	FWJ-200A					
	250	16000	112000	50	FWJ-250A	1	4.84			
	300	23500	164000	56	FWJ-300A					
	350	33000	231000	62	FWJ-350A					
	400	47000	330000	67	FWJ-400A					
	500	39500	329000	95	FWJ-500A					
	600	61000	520000	105	FWJ-600A					
	800	87000	500000	182	FWJ-800A					
	1000	190000	1100000	206	FWJ-1000A				1	5.28
1200	370000	2100000	240	FWJ-1200A						
1400	470000	2700000	248	FWJ-1400A						
1600	700000	4000000	267	FWJ-1600A						
	1800	925000	5300000	239	FWJ-1800A					
	2000	1330000	7600000	244	FWJ-2000A					

†U.L. Recognition on 35 through 600 amperes only. 1 kg = 2.2 lbs 1 lb = 0.45 kg

- Interrupting rating 25kA for 35 through 200 amperes.
- Interrupting rating 100kA for 250 through 2000 amperes.
- Watts loss provided at rated current.
- (800 Vdc/Interrupting rating 50kA) U.L. Recognition on 35-200 and 450-600 amperes.

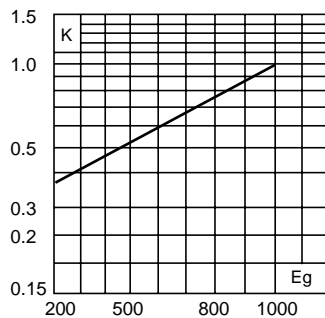


# FWJ 1000V 35-2000A

## Electrical Characteristics

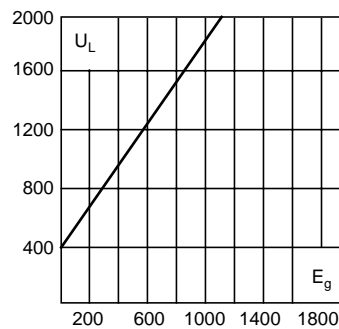
### Total Clearing I<sup>2</sup>t

The total clearing I<sup>2</sup>t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I<sup>2</sup>t is found by multiplying by correction factor, K, given as a function of applied working voltage, E<sub>g</sub>, (RMS).



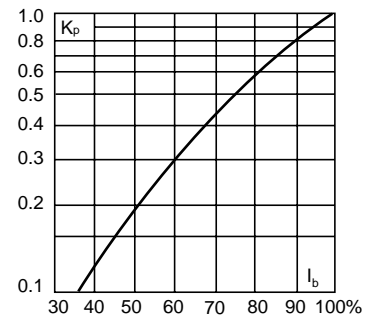
### Arc Voltage

This curve gives the peak arc voltage, U<sub>L</sub>, which may appear across the fuse during its operation as a function of the applied working voltage, E<sub>g</sub>, (RMS) at a power factor of 15%.



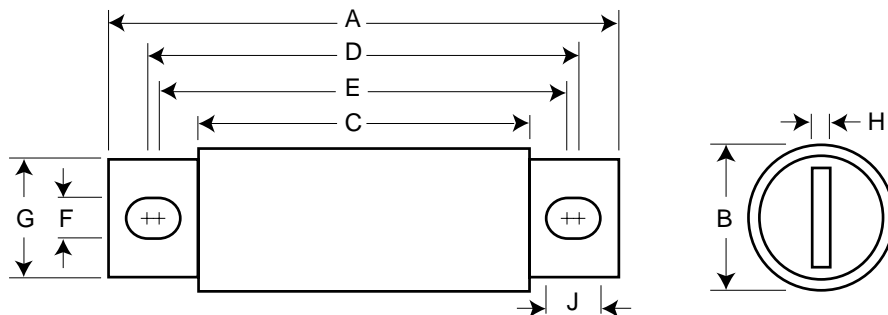
### Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K<sub>p</sub>, is given as a function of the RMS load current, I<sub>b</sub>, in % of the rated current.



## Dimensions

Fig. 1: 35-2000 Amp Range



Order #	Fig.	A	B	C	D	E	F	G	H	J
FWJ-35A-60A	1	5.000	0.940	3.110	4.235	4.180	0.352	0.750	0.125	0.380
FWJ-70A-100A	1	4.932	1.125	3.085	4.266	4.156	0.352	1.000	0.188	0.407
FWJ-125A-200A	1	5.685	1.526	3.261	4.803	4.055	0.445	1.000	0.250	0.819
FWJ-250A-400A	1	5.768	2.000	3.500	4.811	4.150	0.433	1.500	0.250	0.764
FWJ-500A-600A	1	7.201	2.500	3.465	5.984	4.706	0.562	2.000	0.375	1.201
FWJ-800A-2000A	1	6.811	3.500	3.312	5.472	4.962	0.625	2.750	0.500	0.880

Dimension in inches.  
1mm = 0.0394" 1" = 25.4mm

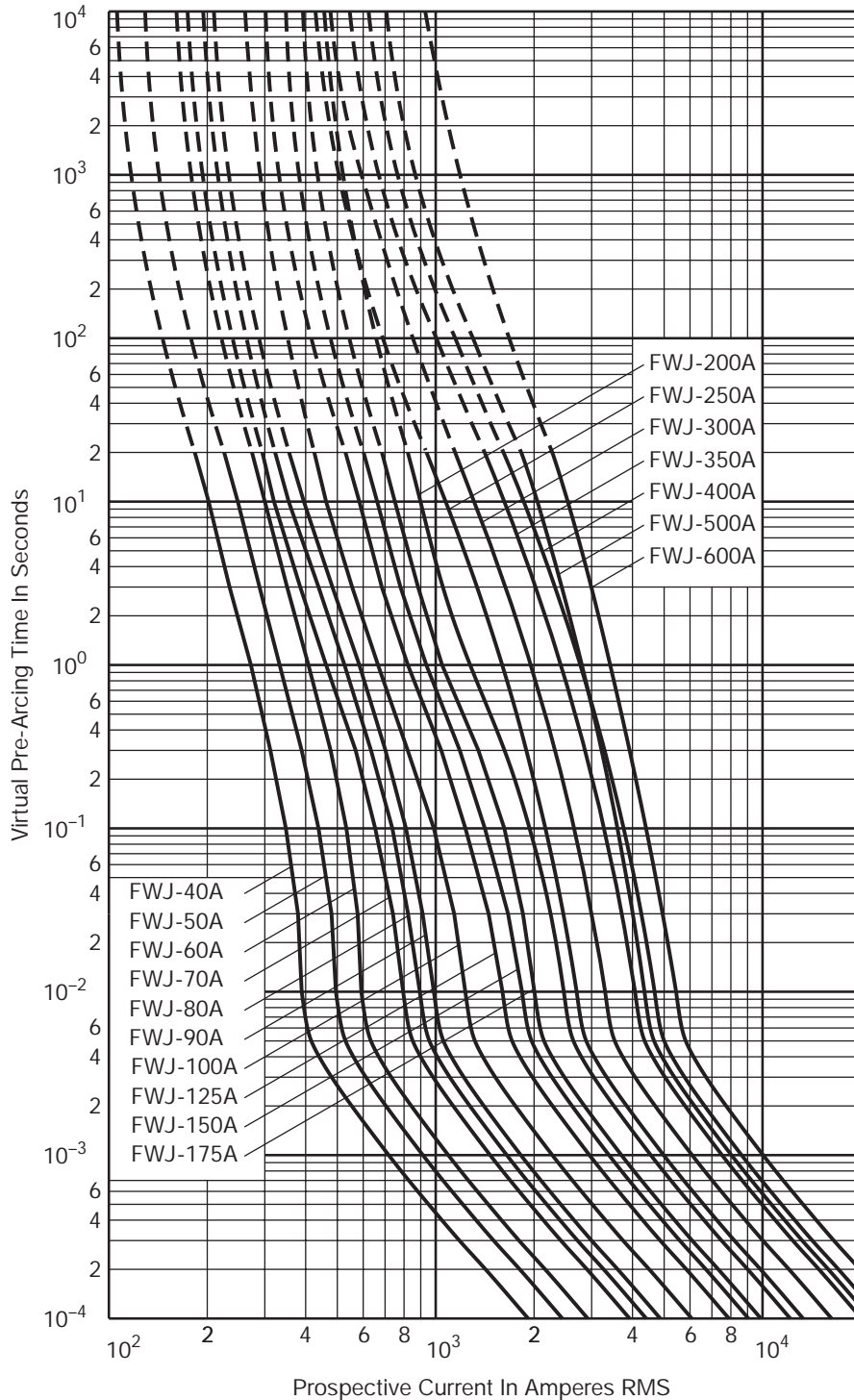
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# Semiconductor Fuse 35-600A, 1000 Volts

BIF Document  
**35785303**

Size



**Minimum Melting**

Time-Current Characteristic Curves

**FWJ 35A-600A**

Approved: **NN**

Page **1 of 2**

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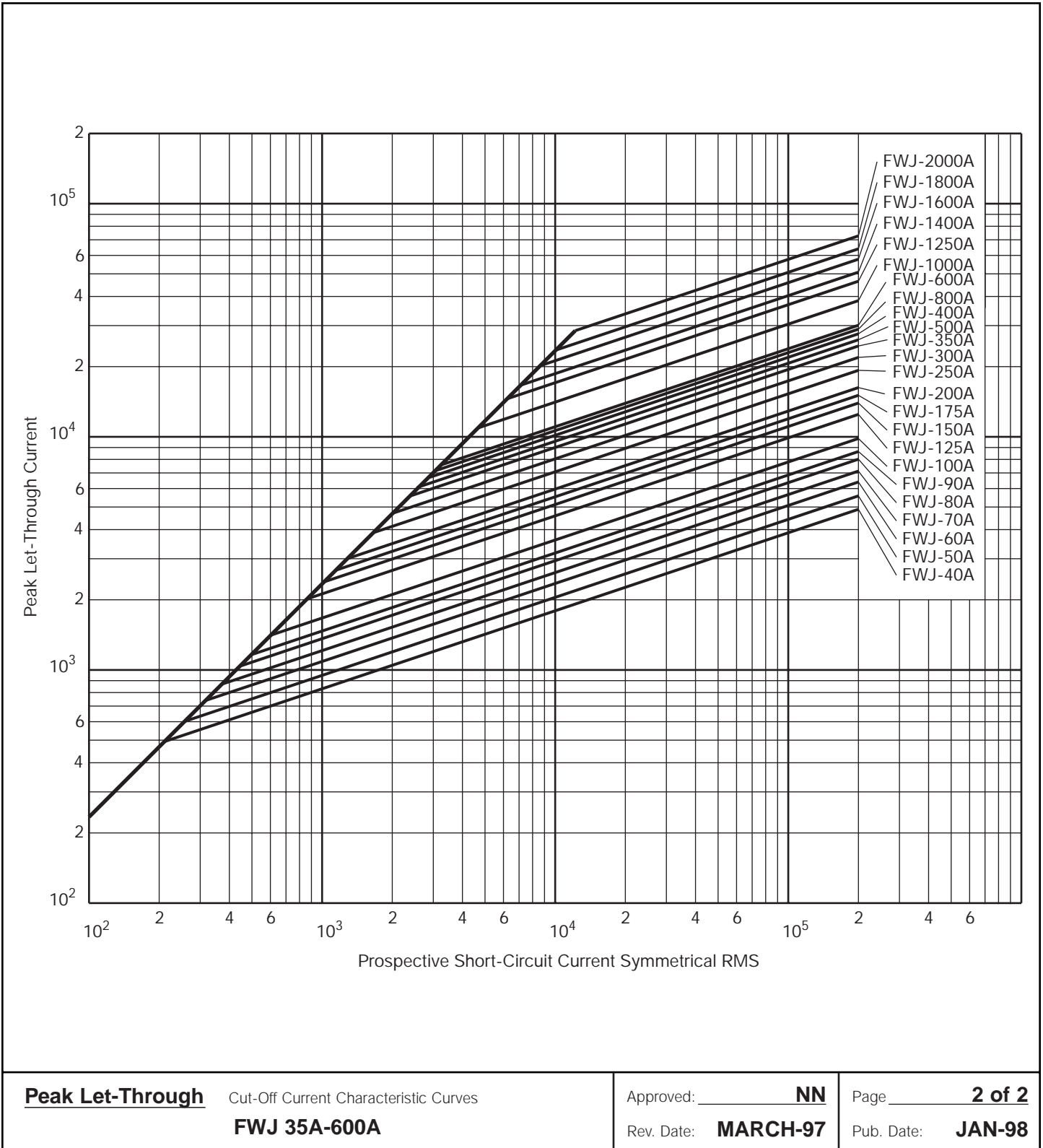


# Semiconductor Fuse

## 35-2000A, 1000 Volts

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**Peak Let-Through** Cut-Off Current Characteristic Curves  
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Page **2 of 2**  
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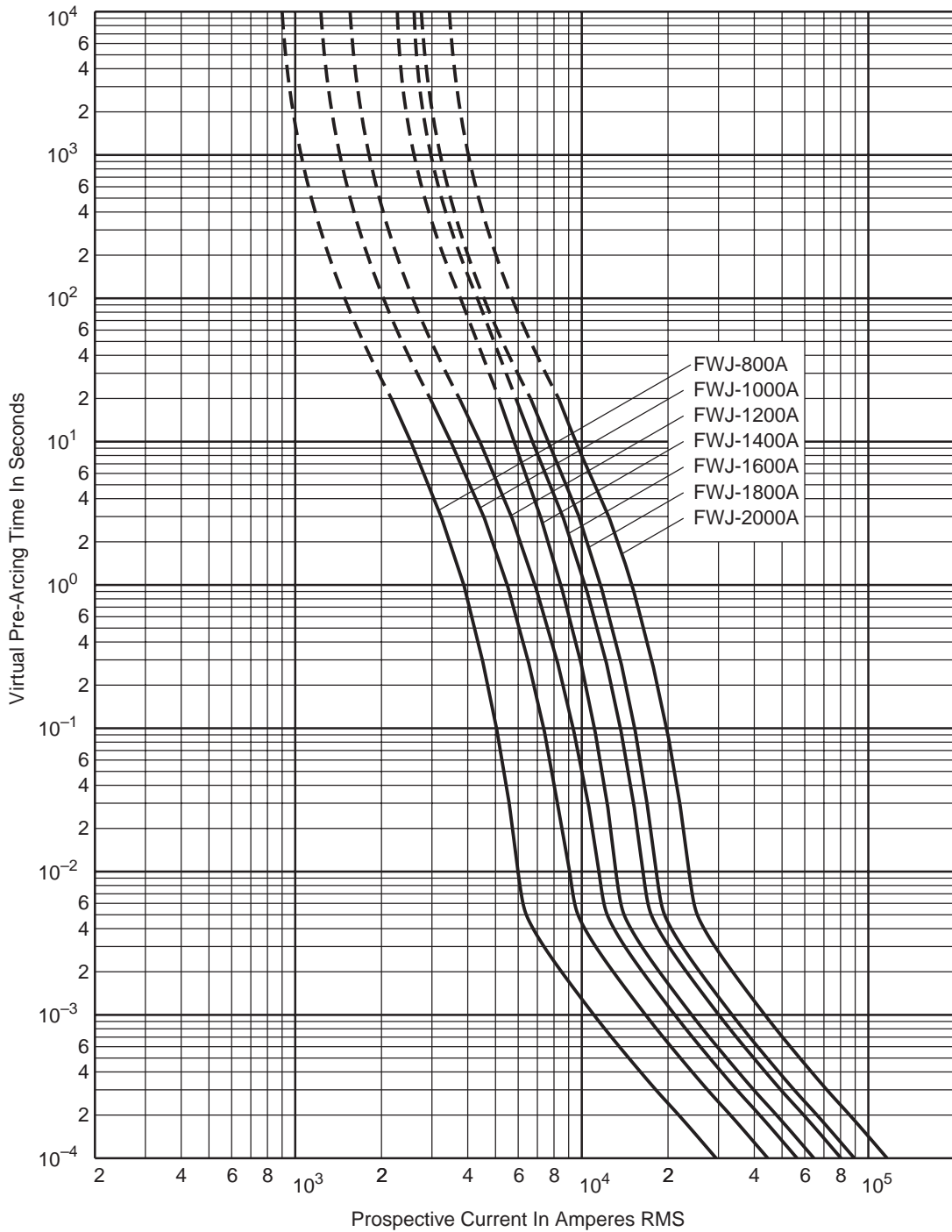


# Semiconductor Fuse

## 800-2000A 1000 Volts

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**35785309**

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**Minimum Melting**

Time-Current Characteristic Curves

**FWJ 800A-2000A**

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Page **1 of 2**

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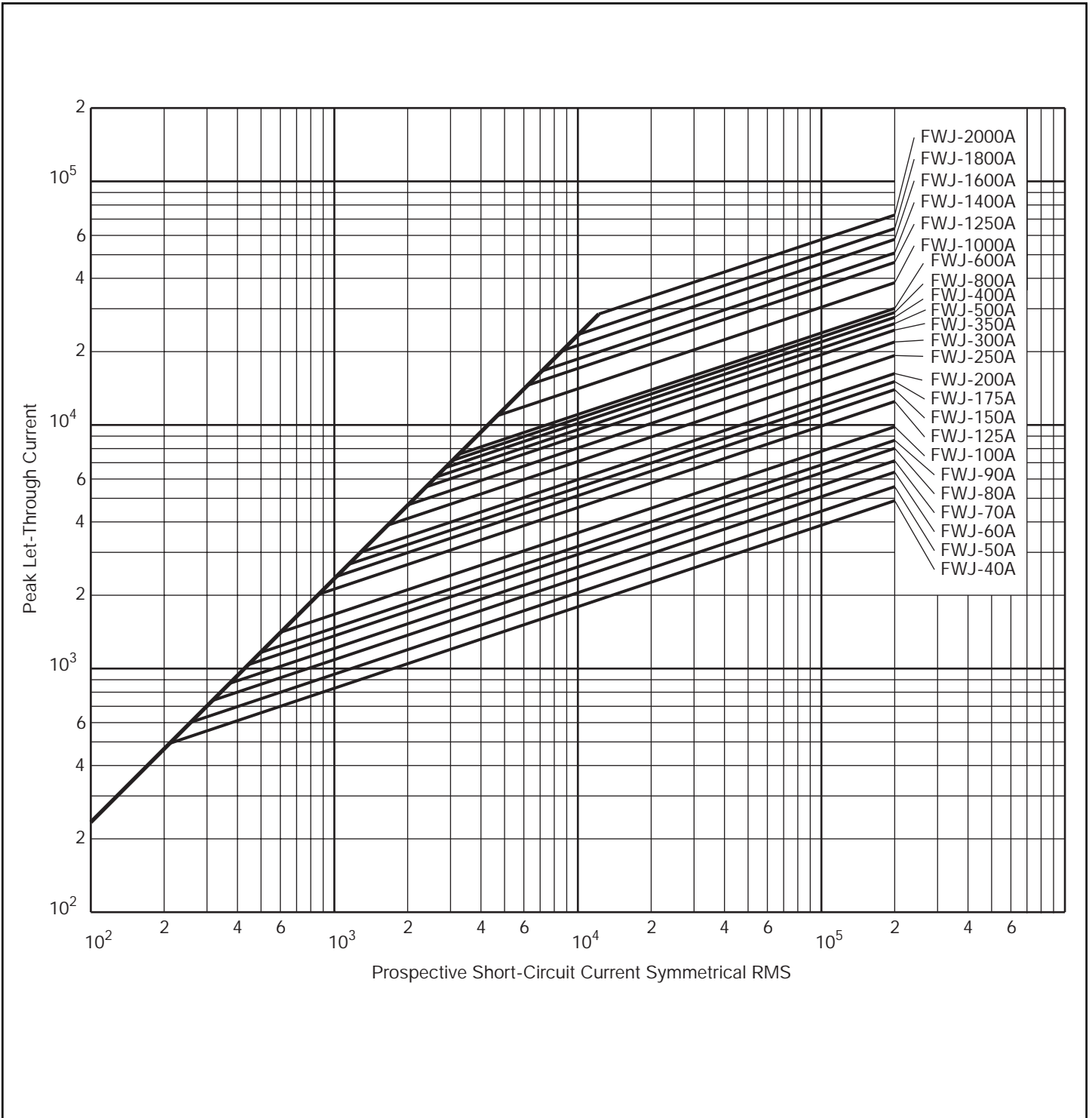


# Semiconductor Fuse

## 40-2000A 1000 Volts

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**Peak Let-Through** Cut-Off Current Characteristic Curves  
**FWJ 40A-2000A**

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Page **2 of 2**  
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