

Type MFC/ Barrier Network Fuse

MFC系列/微型保险丝



**Description**

- The MFC Series hazardous area barrier network fuse offers a range of uses designed to enable greater safety operating electronic equipment within potentially explosive environments.

MFC系列为危险区域屏障网络熔断器提供了一个使用的范围，在潜在的爆炸环境中，能更大的安全操作电子设备。

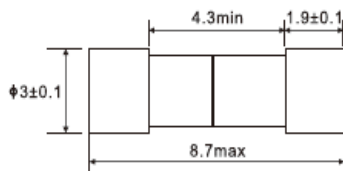
**Features**产品特征

- Meets Barrier Network Standards (EN60079-11) for hazardous applications  
符合用于危险应用程序的屏障网络标准 (EN60079-11)
- Ceramic tube  
陶瓷管
- Available in ratings of 40mA to 250mA  
可用在40毫安到250毫安的范围
- Fast-acting, High breaking Capacity  
快断, 高分断

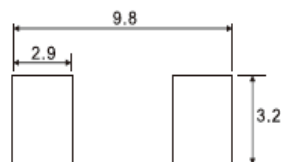
**Applications**产品应用

- Type protected electrical equipment;  
防护式电气设备;
- Electrical connections and components  
电气连接及元件
- Test equipment  
测试设备

**Dimensions**(Unit:mm)尺寸 (单位: mm)



**Recommended Pad Layout**(mm)



**Electrical Characteristics**熔断特性

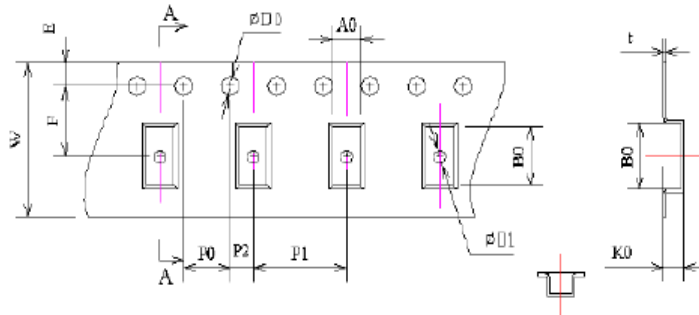
Electrical Characteristics熔断特性		
Ampere Rating	% of Amp Rating	Opening Time
40mA-250mA	170%	4 Hours Minimum
	300%	10 Seconds Maximum
	1000%	0.002Seconds Maximum

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**Electrical Specifications** 电气特性

Catalog Number 料号	Ampere Rated In 额定 电流	Marking 标记	Voltage Rating(V) Interrupting Rating (A)	Normal Resistance Cold(Ohm) 标准冷阻 值	Normal Melting $I^2T(A^2sec)$ 标准熔断值
MFC40mA	40mA	Gray	1500A@125VAC 4000A@250VAC	14.10	0.00006
MFC50mA	50mA	Red		9.40	0.00010
MFC63mA	63mA	Pink		8.90	0.00012
MFC80mA	80mA	Green		5.10	0.00018
MFC100mA	100mA	Yellow		2.87	0.00087
MFC125mA	125mA	Orange		2.20	0.00134
MFC160mA	160mA </td <td>Violet</td> <td>2.05</td> <td>0.00166</td>	Violet		2.05	0.00166
MFC200mA	200mA	Brown		1.01	0.00237
MFC250mA	250mA	Black		0.71	0.00530

**Packaging and Type Designation** 包装和型号名称



Dim(mm)	W±0.3	A0±0.15	B0±0.15	K0±0.15	P0±0.1	P1±0.1	P2±0.15	t±0.05	E±0.1	F±0.15	D0±0.1	D1±0.1
MFC	16	3.3	9.3	3.1	4	8	2	0.35	1.75	7.5	1.5	1.5

**Formation of Type Designation** 类型命名的形成

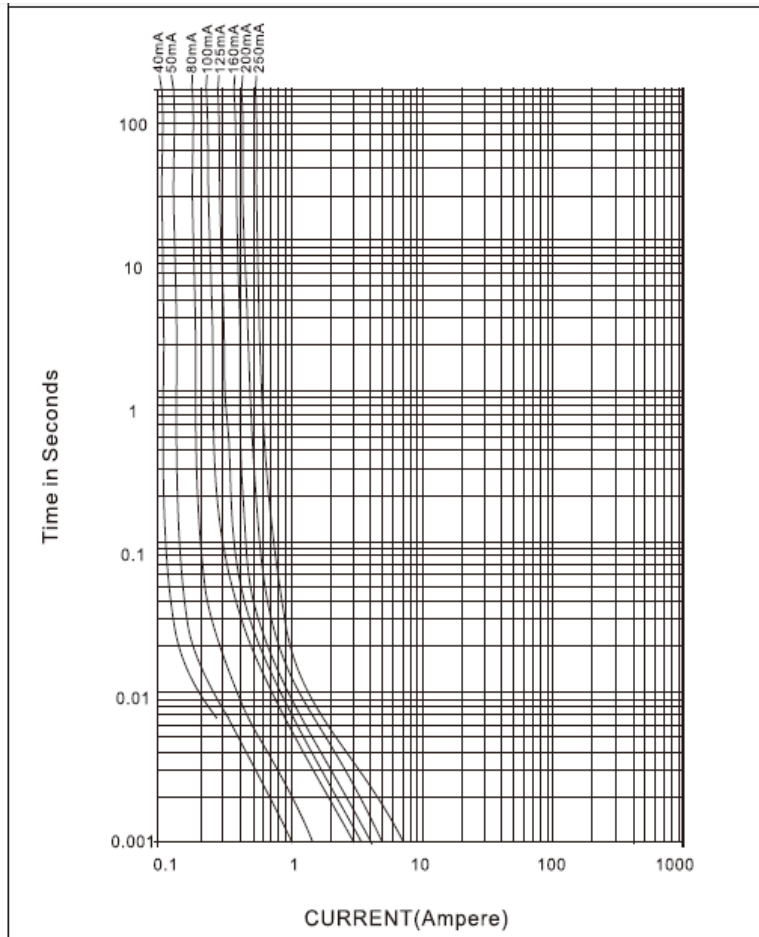


**Packaging** 包装

On Tape:MFC-500pcs Per Reel,5000pcs Outer Box

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**Time-Current Characteristics**熔断时间特性表



**Operation Temperature**工作温度

→ -40°C to 125°C

**Physical Specification Materials**材料

→ Ceramic Body

→ Silverplated Brass Caps

→ Element: metal wire

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**Soldering Parameters** 焊接参数

Reflow Condition 回流条件		Pb-Free assembly 无铅制程
Heat Pre	Temperature Min( $T_s$ )	150°C
	Temperature Max( $T_s$ )	200°C
	Time(Min to Max)( $t_s$ )	60-120secs
Average ramp up rate(Liquidus)Temp( $T_L$ )to peak		3°C/second max
$T_s$ (max)to $T_L$ -Ramp-up Rate		5°C/second max
Reflow	-Temperature( $T_L$ )(Liquidus)	217°C
	Time(Min to Max)( $t_L$ )	60-150 seconds
Peak Temperature( $T_p$ )		250 <sup>-0/-5</sup> °C
Time within 5°C of actual peak Temperture( $t_p$ )		20-40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature( $T_p$ )		8 minutes max
Do not exceed		260°C

