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SPECIFICATION FOR APPROVAL

CUSTOMER	湖南华秋数字科技有限公司
CERTIFIED MODEL/TYPE	KMC3S010
PART NO.	KMC3S010RC(RoHS+HF)
APPLICATION	
CUSTOMER P/N	
ISSUE DATE	Jan.11.2023
REV. NO.	
REV. DATE	

FOR CUSTOMER APPROVAL	CHECKED BY
	Haili Gong
	APPROVED BY
	Huaifang Zhang





REVISED RECORD SHEET

REV. NO	REV. DATE	REVISED CONTENT



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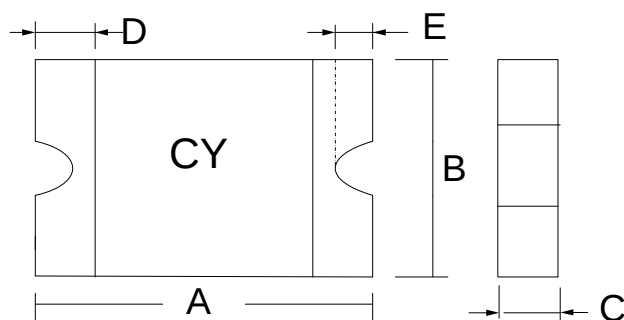
Part Number Code

Example :

K **MC** **3** **S** **010** **R** **C**
(1) (2) (3) (4) (5) (6) (7)

No.	Item	Digit	Specification
(1)	Product Type	K	Thinking Polymer PTC Resettable Fuse
(2)	Type Series	MC	SMD series
(3)	Size (EIA)	3	1206
(4)	Structure	S	S type
(5)	I hold	010	0.1A @ 23°C
(6)	Packaging	R	Taping & Reel
(7)	Optional Suffix	C	RoHS+HF compliance Automotive

Structure and Dimensions



(unit : mm)

Item	A	B	C	D	E
MIN.	3.00	1.50	0.70	0.125	0.08
MAX.	3.50	1.80	1.15	0.750	0.45

Electrical Characteristics (23 °C)

Part No.	V max.	I max.	I hold @ 23°C	I trip @ 23°C	Pd (Max.)
	(V)	(A)	(A)	(A)	(W)
KMC3S010RC	60	100	0.100	0.250	0.40

Part No.	Max.time to trip		Resistance (W)		Operating / storage temperature
			Initial (Ri)	Post trip (R1)	
	(A)	(Sec.)	min.	max.	(°C)
KMC3S010RC	0.50	1.00	1.60	15.00	-40 ~ +85

Ihold=Hold current :maximum current device will pass without interruption at 23°C still air unless otherwise specified.

Itrip=Trip current :minimum current that will switch the device from low resistance to high resistance at 23°C still air unless otherwise specified.

Vmax=Maximum voltage device can withstand without damage at rated current.

Imax=Maximum current device can withstand without damage at rated voltage .

Pd=Power dissipated from device while the tripped state at 23°C still air unless otherwise specified.

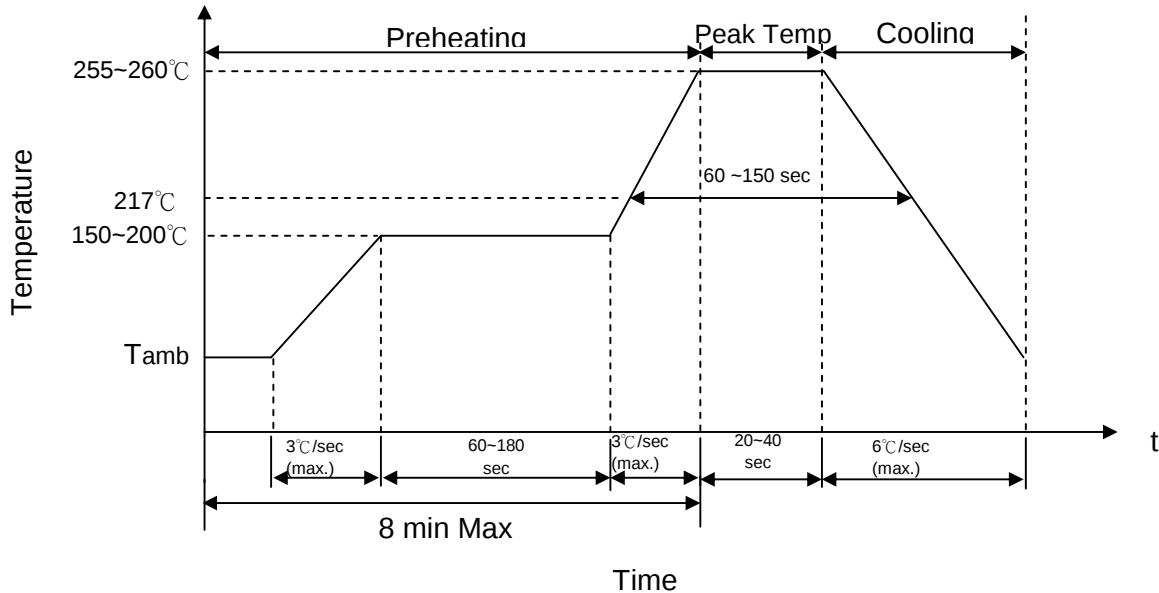
Rimin=Minimum resistance of device prior to tripping at 23°C .

R1max=Maximum resistance of the device one hour after tripping at 23°C .

Caution:Operation beyond the specified rating or improper use may result in damage and possible arcing and flame.

Soldering Recommendation

■ IR-Reflow Soldering Profile



The welding method of the product is reflow welding, wave soldering is not recommended

* Recommended reflow methods: IR, Vapor phase, hot air oven.

* Devices can be cleaned using standard industry methods and solvents.

Notes:

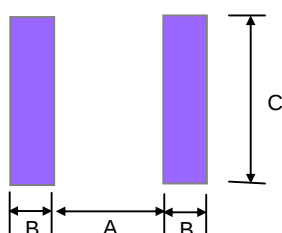
If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Devices are not designed to be wave soldered to the bottom side of the board.

■ Recommended Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360 °C (max.)
Soldering Time	3 sec (max.)
Diameter of Soldering Iron-tip	φ 3 mm (max.)

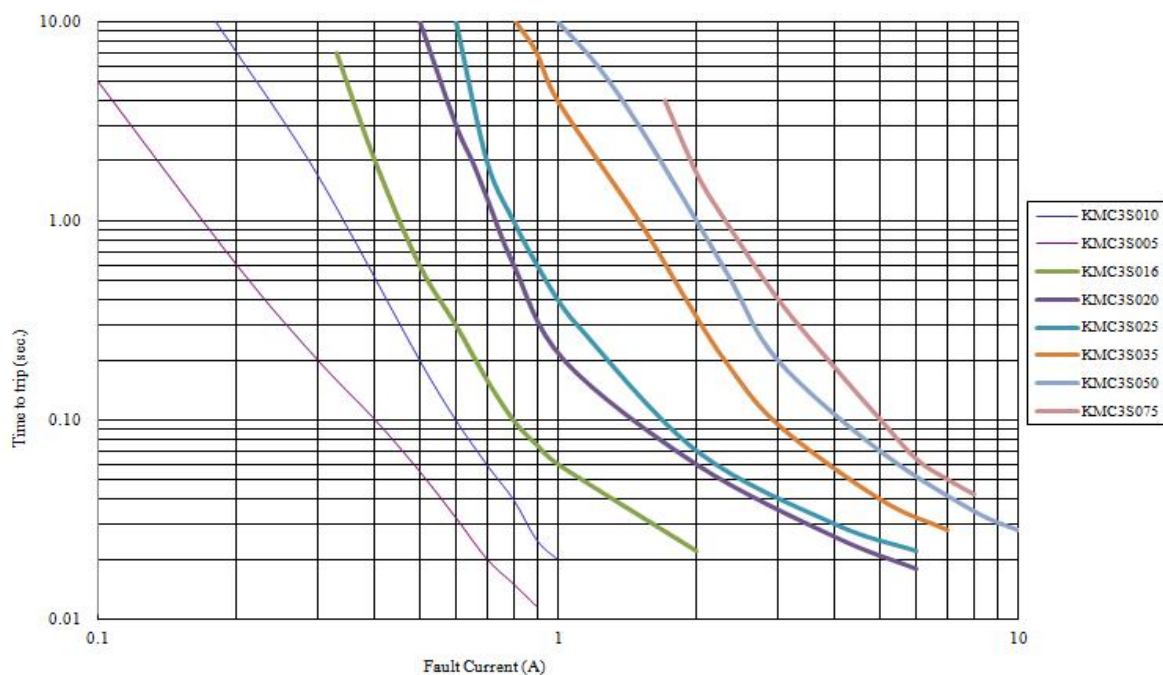
■ Recommended Soldering Pad Dimensions (Nominal)



(Unit : mm)

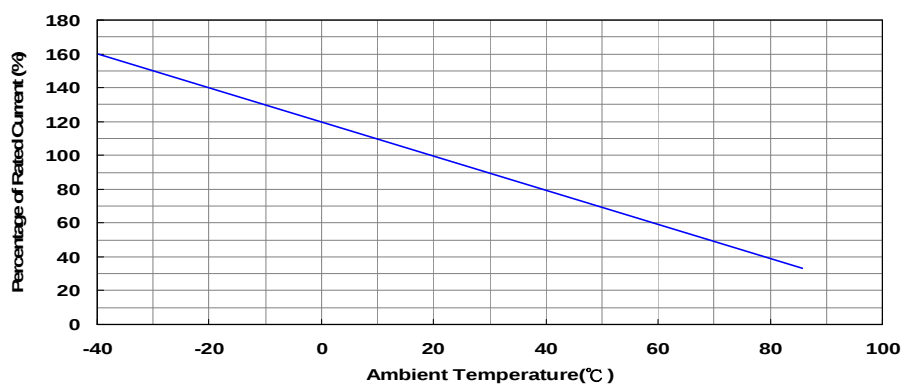
SIZE	A	B	C
1206	2.00	1.00	1.90

Typical Time- to-Trip Curves at 23 °C



Thermal Derating Curve

Thermal derating curve for SMD1206 series



Model	Ambient Operation Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KMC3S010	0.14	0.13	0.11	0.1	0.08	0.07	0.07	0.06	0.055



RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2015/863/EU.

Warehouse Storage Conditions of Products

(I) Storage Conditions :

- 1.Storage Temperature : $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 2.Relative Humidity : $\leq 75\% \text{RH}$
- 3.Keep away from corrosive atmosphere and sunlight.

(II) Period of Storage : 1 year



Safety Approvals (Certified Model/Type : KMC3S010)



* UL 1434 / cUL recognized (File # E138827)



* TUV recognized (File # R50143386)

Certificates

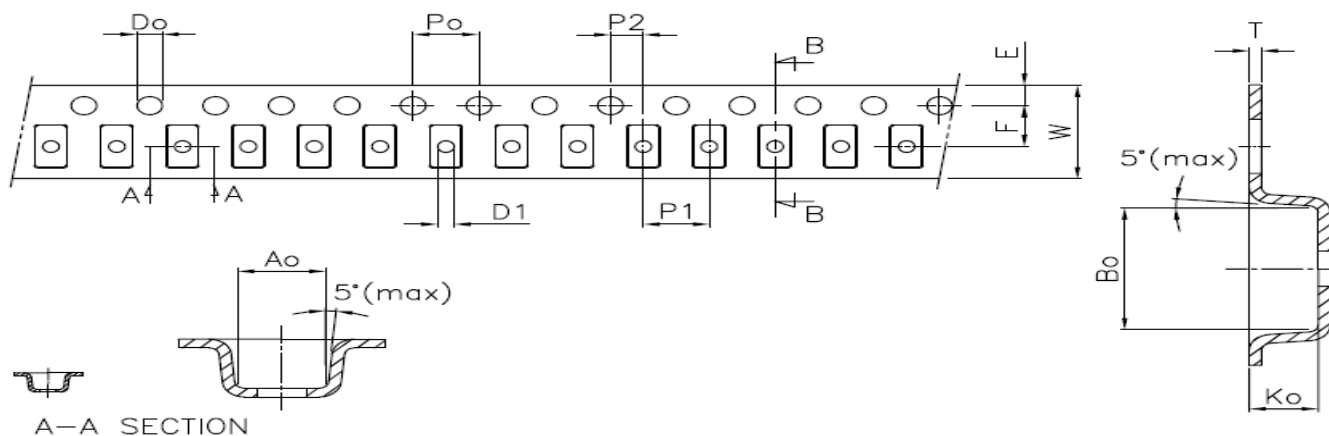
- (1) IATF 16949 certificate
- (2) ISO 9001 certificate

Test Report

- (1) RoHS test report
- (2) Halogen-free test report

Packaging

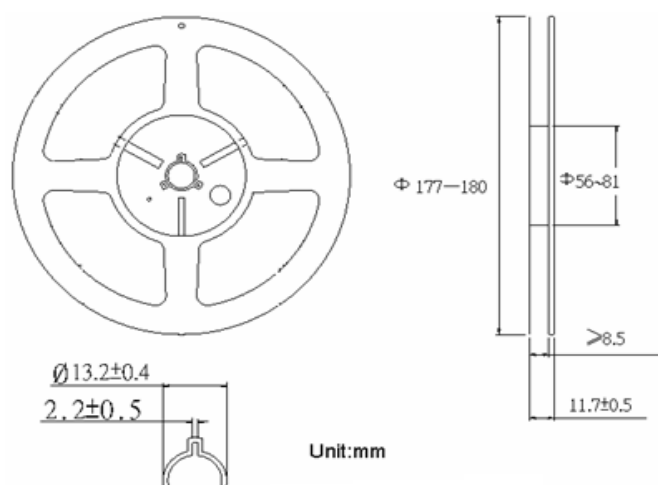
■ Taping specification (1206 type)



Unit : mm

Index Type	A ₀	B ₀	K ₀	P ₀	P ₁	P ₂	T	E	F	D ₀	D ₁	W	10P ₀
	+0.1/-0	+0.1/-0	±0.05	±0.1	±0.1	±0.1	±0.05	±0.1	±0.1	±0.05	min	±0.3	±0.2
1206	1.95	3.55	1.40	4.00	4.00	2.00	0.23	1.75	3.50	1.55	1.00	8.00	40.00

■ Quantity (2500 pcs / reel)



Unit:mm

图1