JK-nSMD020-30 PPTC DEVICES

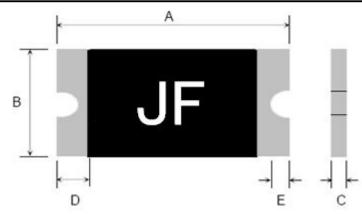
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Terminal pad materials: Tin-Plated Nickle-copper

Terminal pad solderability: Meets EIA specification RS 186-9E and ANSI/J-STD-002 Category 3.

Marking: JF=1206(020)

Table1 :DIMENTION(Unit : mm)

Model	Marking	A		В		С		D	Е
Widten Warking	Min.	Max.	Min.	Max.	Min.	Max	Min.	Min.	
JK-nSMD020-30	JF	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10

Table2:PERFORMANCE RATINGS:

Model	V_{max}	I _{max}	I _{hold}	I _{trip}	P _d	Maximum Time To Trip		Resistance		
Model	(Vdc)	(A)	@25°C	@25°C	Typ (W)	Current	Time	Rimin	Ri _{typ}	R1 _{max}
			(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	(Ω)
JK-nSMD020-30	30.0	40	0.20	0.46	0.6	8.0	0.08	0.35	0.70	3.500

Table3:Test Conditons and Standards

Item	Test Conditon	Standard
Initial Resistance	25℃	$0.3500{\sim}3.50\Omega$
I_{H}	25°C, 0.25A, 60min	No Trip
$T_{ m trip}$	25℃, 8.0A	≤0.08s
Trip endurance	30V, 40A, 1hr	No arcing or burning

Operating Temperature: -40°C TO 85°C

Packaging: Bulk,5000 pcs per bag

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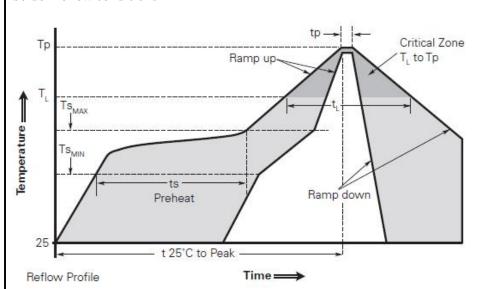




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Solder reflow conditions



Pb-Free Assembly				
3°C/second max.				
150°C				
200°C				
60-120 seconds				
217°C				
60-150 seconds				
260°C				
ure				
30 seconds max.				
3°C/second max.				
8 minutes max.				

Note: All temperatures refer to topside of the package, measured on the package body surface.

- Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25mm (0.010inch).
- Devices can be cleaned using standard industry methods and solvents.
- Soldering temprature profile meets RoHs leadfree process.

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

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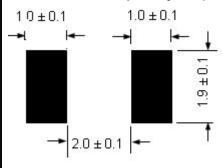




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Recommended pad layout (mm)



WARNING

- · Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame
- · PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- · Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- · Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC.
- · Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
- · Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices.PPTC SMD can be cleaned by standard methods.
- · Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profilecould negatively impact solderability performance of our devices.

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