

RoHS Compliant

Specifications:

Applications : All high-density boards.

Product features : 2920 Dimension, surface mountable, solid state, faster time to trip than

standard SMD devices.

Maximum voltage : 6V to 60V.
Temperature range : -40°C to 85°C.

UL: E-345437



Electrical Characteristics (23°C)

Hold	Hold Trip Rated Maximum		Typical	Max Time to Trip		Resistance			
Current	Current	Voltage	Current	Power	Current	Time	R _{Min}	R1 _{Max}	Part Number
I _{H,} A	I _{T,} A	V _{Max,} V dc	I _{Max,} A	P _{d,} W	Amperes	Seconds	Ω	Ω	
2.00	4.00	16	40	1.5	8.0	4.5	0.035	0.120	MC36240
2.50	5.00	16	40	1.5	8.0	16.0	0.025	0.085	MC36241

I_H = Hold current-maximum current at which the device will not trip at 23°C still air.

I_T = Trip current-minimum current at which the device will always trip at 23°C still air.

 V_{MAX} = Maximum voltage device can withstand without damage at its rated current (I maximum).

I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V maximum).

P_d = Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.

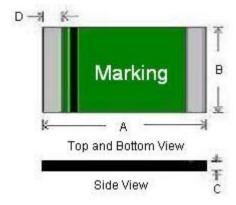
R_{MIN} = Minimum device resistance at 23°C prior to tripping.

R1_{MAX} = Maximum device resistance at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 seconds.

Termination pad characteristics

Termination pad materials: Pure Tin.

FSMD Product Dimensions (Millimetres)



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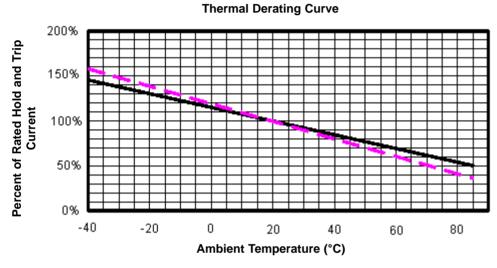


Dimensions Table

Α		В		С		D	Part Number
Minimur	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	rait Nullibei
6.73	7.98	4.80	5.44	0.30	0.90	0.35	MC36240
6.73	7.98	4.80	5.44	0.30	0.90	0.35	MC36241

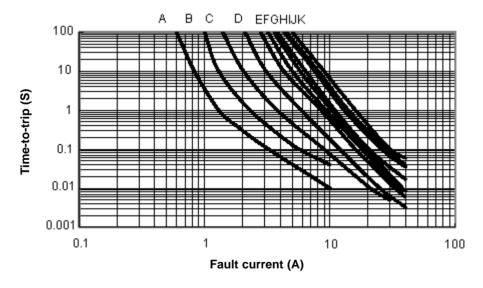
Thermal Derating Curve Dimensions: Millimetres

nermal Derating Curve



Typical Time-To-Trip at 23°C





Material Specification

Terminal pad material : Pure tin.

Soldering characteristics : Meets EIA specification RS 186-9E, ANSI/J-std-002 category 3.

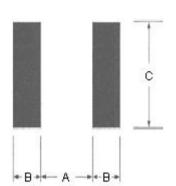
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Pad Layouts Solder Reflow and Rework Recommendations

The dimension in the table below provide the recommended pad layout for each 2920 device.



Pad Dimensions

Device	A	B	C	
	Nominal	Nominal	Nominal	
All 2920 Series	5.1	2.3	5.6	

Dimensions: Millimetres

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T _s maximum to T _p)	3°C/seconds maximum
Preheat: Temperature Minimum (Ts minimum) Temperature Maximum (T _s maximum) Time (t _s minimum to t _s maximum)	150°C 200°C 60 -180 seconds
Time maintained above: Temperature(T _L) Time (t _L)	217°C 60-150 seconds
Peak/Classification Temperature(T _p):	260°C
Time within 5°C of actual Peak: Temperature (t _p)	20-40 seconds
Ramp-Down Rate:	6°C/seconds maximum
Time 25°C to Peak Temperature:	8 minutes maximum

Note 1: All temperatures refer to of the package, measured on the package body surface.

Solder reflow

Due to "Lead Free" nature, temperature and dwelling time for the soldering zone is higher than those for regular. This may cause damage to other components.

- 1. Recommended max past thickness > 0.25mm.
- 2. Devices can be cleaned using standard methods and aqueous solvent.
- 3. Rework use standard industry practices.
- 4. Storage Environment : < 30°C/60%RH.

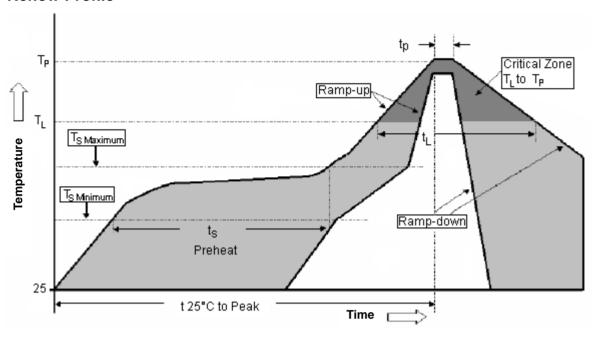
Caution:

- 1. If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
- 2. Devices are not designed to be wave soldered to the bottom side of the board.





Reflow Profile



Part Number Table

Description	Part Number
Surface Mountable PTC Resettable Fuse	MC36240
Surface Mountable PTC Resettable Fuse	MC36241

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