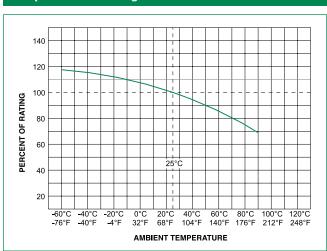


### **Temperature Re-rating Curve**



### Note:

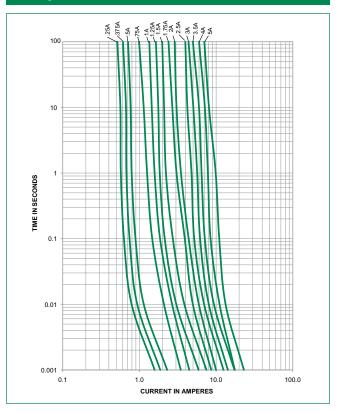
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Example:

For continuous operation at 70 degrees celsius, the fuse should be derated sfollows:  $I = (0.75)(0.80)I_{stat} = (0.60)I_{stat}$  **2.** The temperature derating curve represents the nominal conditions. For questions about temperature

derating curve, please consult Littelfuse technical support for assistance.

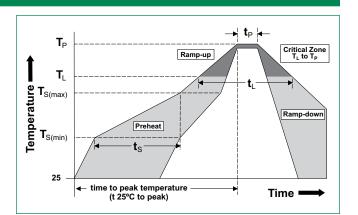
## **Average Time Current Curves**



## **Soldering Parameters**

Reflow Condition Pb – Free assem		Pb – Free assembly
Pre Heat	-Temperature Min (T <sub>s(min)</sub> )	150°C
	- Temperature Max (T <sub>s(max)</sub> )	200°C
	-Time (Min to Max) (t <sub>s</sub> )	60 – 120 secs
Average ram	np up rate (Liquidus Temp (T <sub>L</sub> ) to peak	5°C/second max
$T_{S(max)}$ to $T_L$ -	Ramp-up Rate	5°C/second max
Reflow	- Temperature (T <sub>L</sub> ) (Liquidus)	217°C
	- Temperature (t <sub>L</sub> )	60 – 150 seconds
Peak Temperature (T <sub>P</sub> )		250 <sup>+0/-5</sup> °C
Time within 5°C of actual peak Temperature (t <sub>p</sub> )		20 - 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T <sub>p</sub> )		8 minutes Max.
Do not exceed		260°C

Wave Soldering 260°C, 10 seconds max.



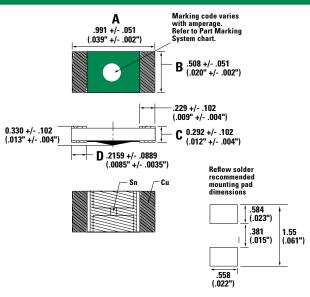
# **Surface Mount Fuses**

### **Product Characteristics**

Materials	Body: Epoxy / Glass Substrate; Parts with 'HF' suffix: Halogen Free Epoxy / Glass Terminations: 100% Tin over Nickel over Copper Device Weight: 0.316mg
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Insulation Resistance After Opening: Greater than 10 0000hms	

Operating Temperature	-55°C to 90°C. Consult temperature re-rating curve chart. For operation above 90°C please contact Littelfuse.	
Thermal Shock	Withstands 5 cycles of -55°C to 125°C	
Vibration	MIL-STD-202, Method 201	

### **Dimensions**



Unit	А	В	С	D
inch min	0.037	0.018	0.008	0.005
inch max	0.041	0.022	0.016	0.012
mm min	0.94	0.457	0.190	0.127
mm max	1.04	0.559	0.394	0.305

### **Packaging**

Packaging	Packaging	Quantity	Quantity & Packaging
Option	Specification		Code
8mm Tape and Reel	EIA-481 Rev. D (IEC 60286, part 3)	10000	KR

## **Part Marking System**

Amp Code	Marking Code
0.250	[[X]]
0.375	
0.500	
0.750	
001.	
1.25	
01.5	
1.75	[] <b>X</b> []
002.	
02.5	[F]
003.	
03.5	
004.	00
005.	

## Part Numbering System

# Refer to Amp Code column in the Electrical Specifications table. The dot is positioned at the end of the number sequence with whole ratings and within for fractional ratings. Example: 1.5 amp product is 043501.5KRHF (2 amp product shown) Quantity Code K = 10,000 Pieces Packaging Code R = Tape and Reel Halogen Free Item "S" - for .250A only

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