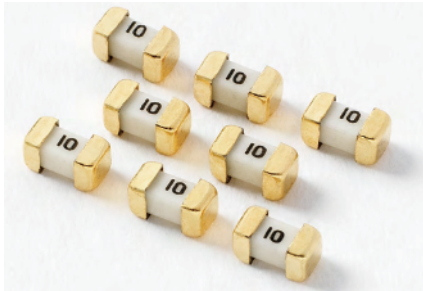


为您的产品保驾护航

PRODUCT DATASHEET

Nano Fuse · Surface Mount

J458DR



## Description

The J458DR Series is an ultra-small fuse, square surface mount fuse designed to support a variety of space constrained overcurrent protection applications. Offering a 1206 size footprint.

## Features

- Surface Mount Fuse
- RoHS Compliant and Halogen Free
- Fully compatible with lead free soldering profiles

## Applications

- Notebook PC
- LCD backlight inverter
- LCD Panel
- DC/DC converter
- Battery Pack
- Car Navigation System
- Network Equipment
- Telecom Equipment
- Electronic Signage
- Portable Consumer

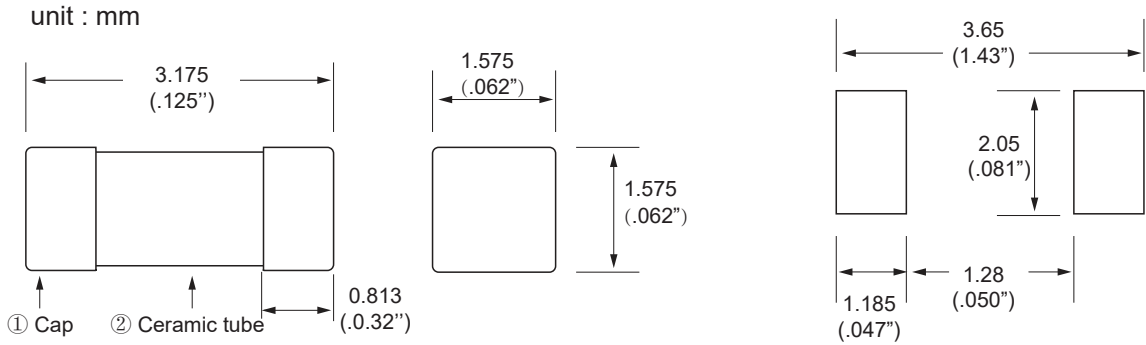
## Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4 h Min
250%	5 s Max
1000%	0.001s~0.01s

## Performance Specification

Part Number	Marking	Ampere Rating (A)	Max Voltage Rating(V)	Interrupting Rating	Nominal Gold Resistance (mΩ)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)
J458001.DR	H	1.0	75V	50A @75VDC 50A @48VAC	183.84	0.163
J458002.DR	N	2.0			52.20	0.945
J45802.5DR	O	2.5			42.14	1.401
J458003.DR	P	3.0		37.06	2.283	
J458004.DR	S	4.0		21.12	4.81	
J458005.DR	T	5.0	63V	50A @32VAC	15.00	7.90
J458010.DR	10	10.0		50A @63VDC 50A @32VAC	6.98	15.6

## Dimensions



Recommended pad layout

NO.	Component	Material
①	Cap	Gold Plated Brass
②	Body	Ceramic

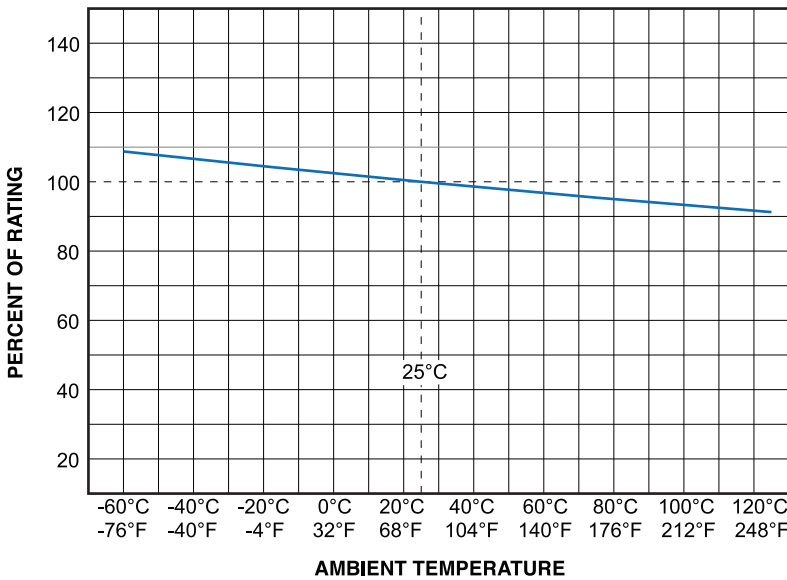
## Product Characteristics

No.	Item	Contain	Reference standard
1	Insulation Resistance (after Opening)	10,000 ohms minimum	MIL-STD-202G, Method 302 Test Condition A
2	Solderability	T=235°C±5°C, t=5+0/-0.5s, Cover ≥ 95%	MIL-STD-202G, Method 208H
3	Resistance to Soldering Heat	10 sec at 260°C	MIL-STD-202G, Method 210F Test Condition B
4	Thermal Shock	5 cycles, -65°C to 125°C,	MIL-STD-202F, Method 107G Test Condition B
5	Mechanical Shock	100G's peak for 6 milli seconds	MIL-STD-202, Method 213 Test Condition I
6	Vibration	10-55 Hz	MIL-STD-202F, Method 201A
7	Moisture Resistance	90-98% RH, Heat: 65°C	MIL-STD-202, Method 106, High Humidity
8	Salt spray	48hrs	MIL-STD-202F, Method 101D Test Condition B

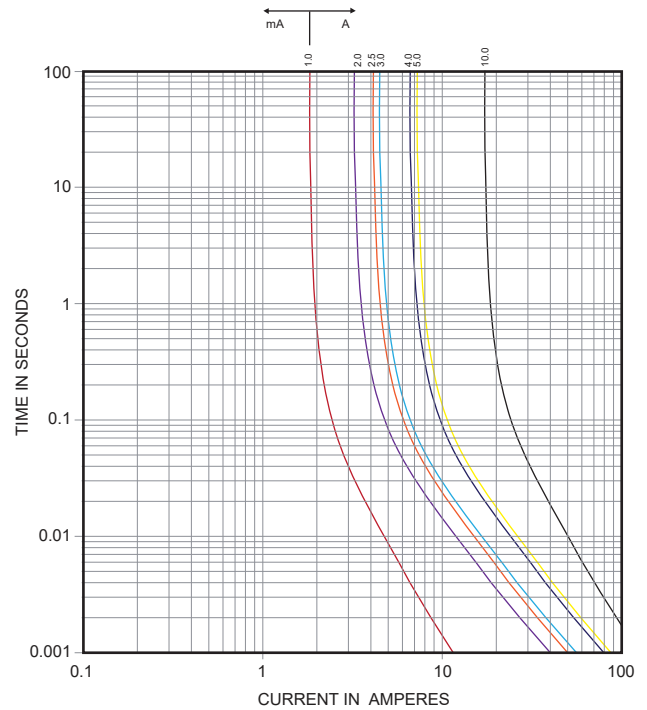
## Environmental Characteristic

- Operating temperature range : -55°C to 125°C
- Derating depicted in this in addition to the standard derating of 25% for continuous operation.

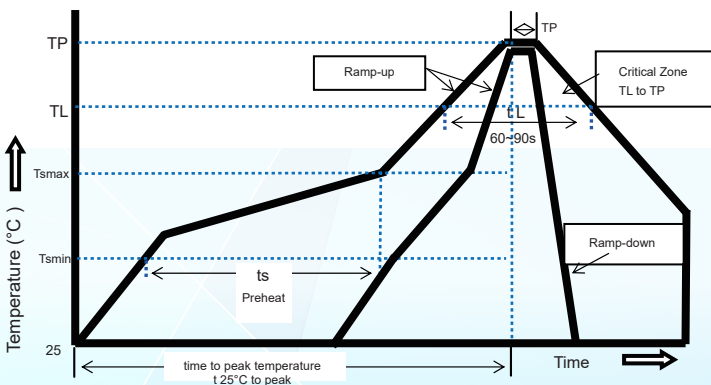
### Temperature Derating Curve



### Average Time-Current Curve



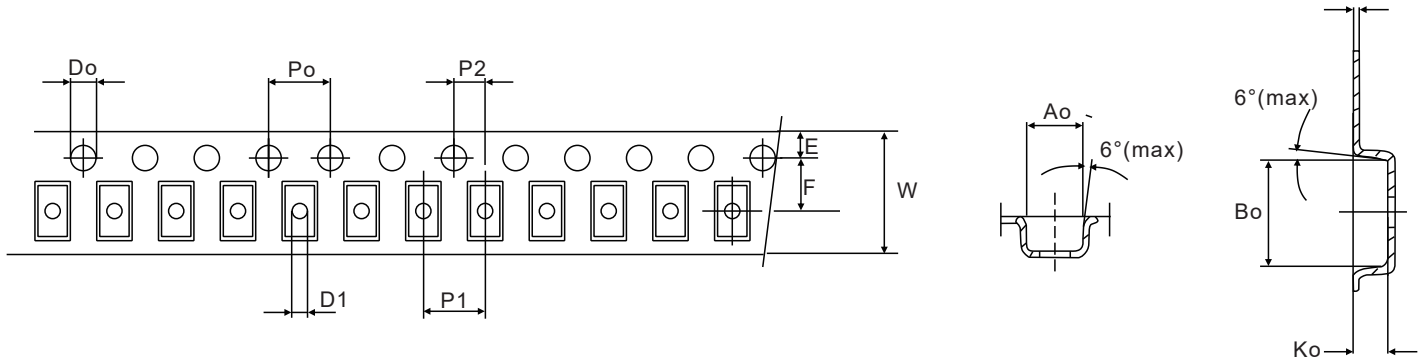
## Soldering Parameters



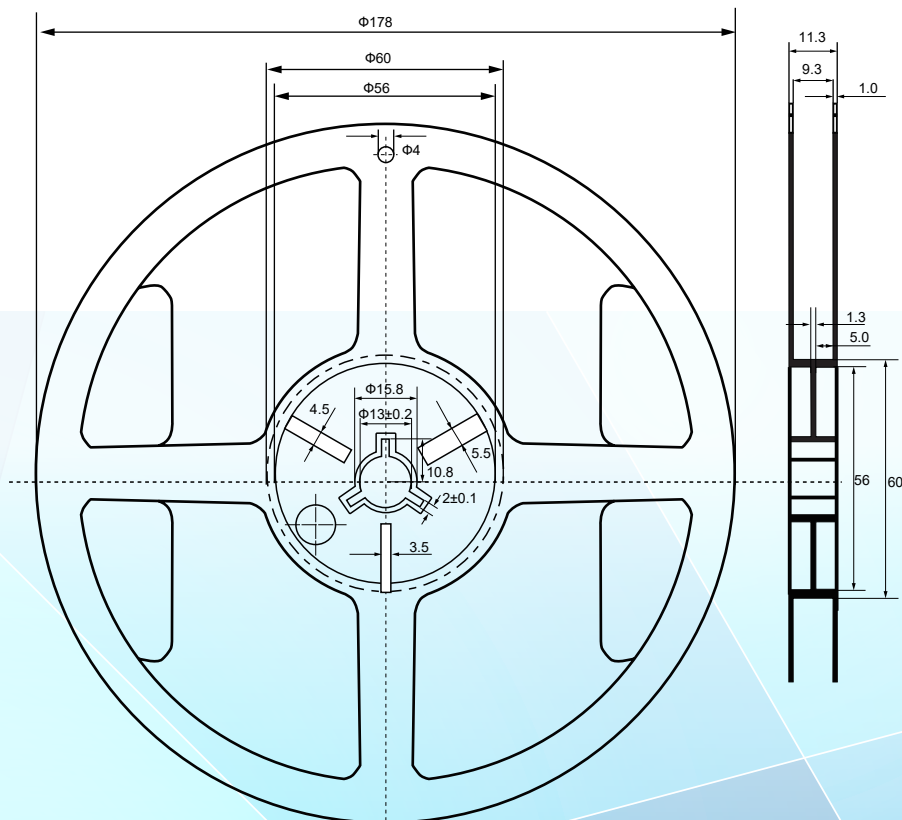
	Reflow Condition	Pb-Free assembly
Pre heat	Temperature Min Ts(min)	150 °C
	Temperature Max Ts(max)	200 °C
	Time Min to Max (Ts)	60-120 secs
Reflow	Temperature (TL)(Liquidus)	217°C
	Time Max (TL)	60-90 seconds
Average ramp up rate (Liquidus Temp(TL) to peak)		5°C/seconds max
Ts(max)to TL-Ramp-up Rate		5°C/seconds max
Peak Temperature(Tp)		260 + 0/-5°C
Time within 5°C of actual peak Temperature(tp)		20-40seconds
Ramp-down Rate		5°C/seconds max
Time 5°C of peak Temperature(tp)		8 minutes max
Do not exceed		260°C

**Packing**

Packaging Option	Quantity
8mm Tape and Reel	1500



Symbol	A0	B0	K0	P0	P1	P2
Spec	1.80±0.10	3.50±0.10	1.27±0.10	4.00±0.10	4.00±0.10	2.00±0.10
Symbol	E	F	D0	D1	W	T
Spec	1.75±0.10	3.50±0.10	1.50±0.10	1.00(max)	8.00±0.10	0.25±0.05



Part Numbering

J 458 xxxx DR

