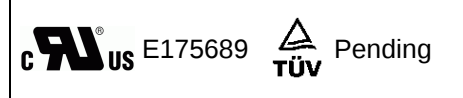


SURFACE MOUNT PTC SN (1206) MODEL



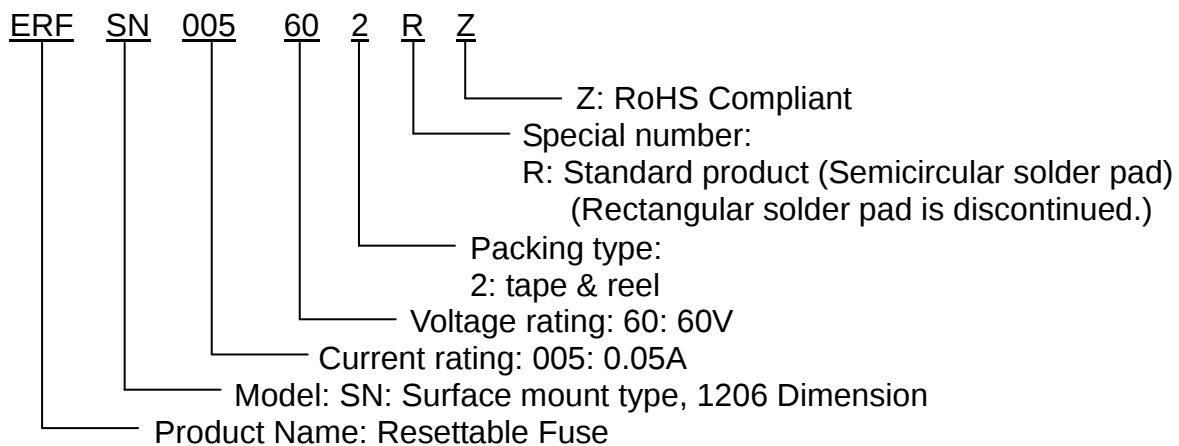
■ FEATURES

- 1206 Dimension, surface mount, solid state
- Faster time to trip than standard SMD devices
- Lower resistance than standard SMD devices
- Operation current: 50mA~2.0A
- Maximum voltage: 6V~60Vdc
- Temperature range: -40°C to 85°C
- Tape and reel available on most models

■ APPLICATIONS

- ◆ Almost anywhere there High-density boards is a low voltage power supply and a load to be protected including:
 - Computers & peripherals
 - General electronics
 - Automotive applications

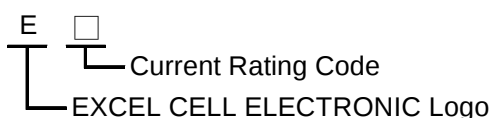
■ PART NUMBERING SYSTEM



■ Marking system



Example



EZ=ERFSN005-60	EP= ERFSN025-24	EO=ERFSN075-16
EA=ERFSN010-60	EC=ERFSN035-16	EF=ERFSN100-06
EJ= ERFSN012-48	EM=ERFSN035-30	EG=ERFSN110-06
EK= ERFSN016-48	ED=ERFSN050-08	EQ=ERFSN110-16
EB=ERFSN020-30	EN=ERFSN050-24	EH=ERFSN150-06
EL= ERFSN025-16	EE=ERFSN075-06	EI =ERFSN200-06

■ Electrical characteristics(23°C)

Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Max. Time to trip		Resistance Tolerance	
								R _{MIN}	R _{1MAX}
	I _H , A	I _T , A	V _{MAX} , V _{dc}	I _{MAX} , A	P _d , W	Amp	Sec	Ω	Ω
SN005-60	0.05	0.15	60	100	0.4	0.25	1.50	3.60	50.00
SN010-60	0.10	0.25	60	100	0.4	0.50	1.00	1.60	15.00
SN012-48	0.12	0.39	48	100	0.5	1.00	0.20	1.40	6.50
SN016-48	0.16	0.45	48	100	0.5	1.00	0.30	1.10	5.00
SN020-30	0.20	0.40	30	100	0.4	8.00	0.10	0.60	2.50
SN025-16	0.25	0.50	16	100	0.6	8.00	0.08	0.55	2.30
SN025-24	0.25	0.50	24	100	0.6	8.00	0.08	0.55	2.30
SN035-16	0.35	0.75	16	100	0.4	8.00	0.10	0.30	1.20
SN035-30	0.35	0.75	30	100	0.6	8.00	0.10	0.30	1.20
SN050-08	0.50	1.00	8	100	0.4	8.00	0.10	0.15	0.70
SN050-24	0.50	1.00	24	100	0.6	8.00	0.10	0.15	0.75
SN075-08	0.75	1.50	8	100	0.6	8.00	0.20	0.09	0.29
SN075-16	0.75	1.50	16	100	0.6	8.00	0.20	0.09	0.29
SN100-06	1.00	1.80	6	100	0.6	8.00	0.30	0.055	0.21
SN110-06	1.10	2.20	8	100	0.8	8.00	0.30	0.040	0.18
SN110-16	1.10	2.20	16	100	0.8	8.00	0.30	0.040	0.18
SN150-08	1.50	3.00	8	100	0.8	8.00	1.00	0.040	0.12
SN200-06	2.00	3.50	6	100	0.8	8.00	1.50	0.018	0.08

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 rated current.

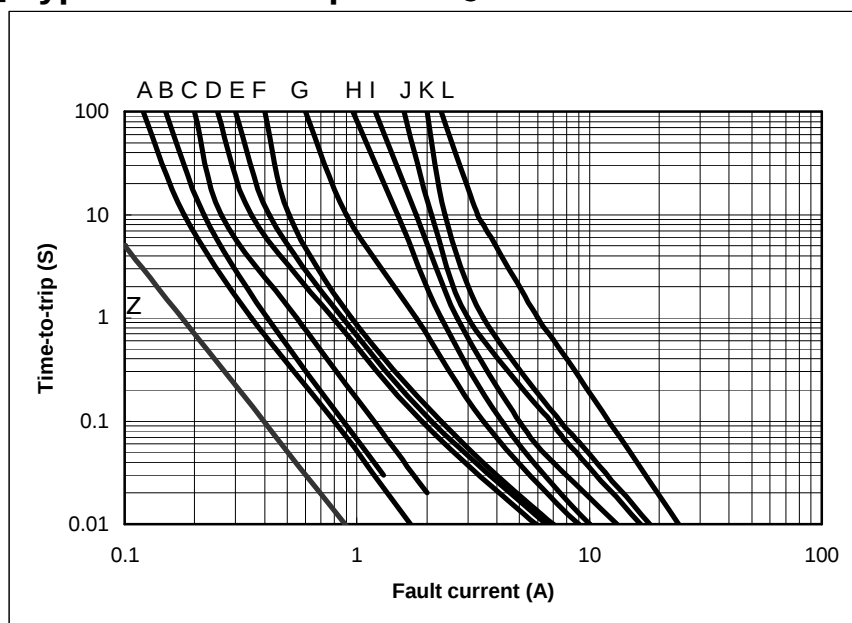
I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V max).

P_d=Typical power dissipated from device when in the tripped state in 23°C still air environment.

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

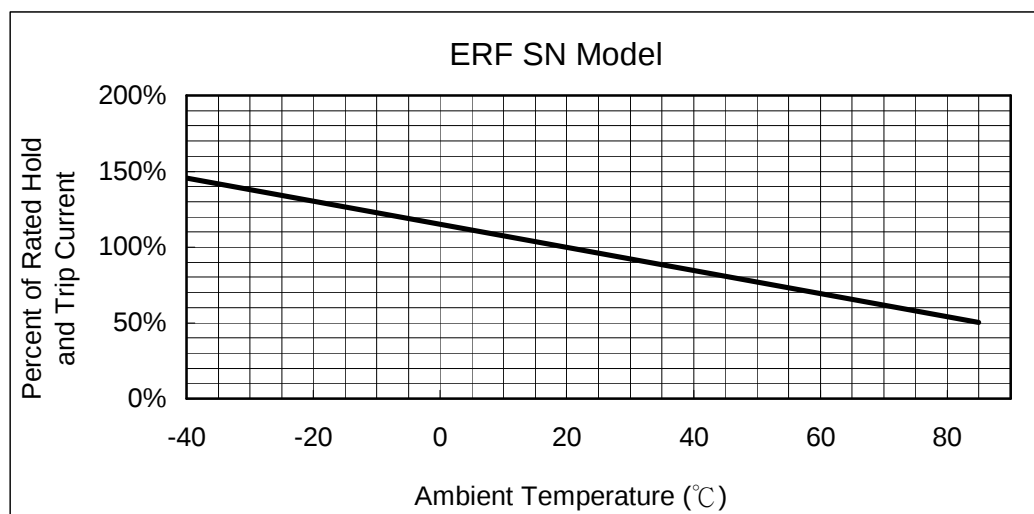
R_{1MAX}=Maximum device resistance at 23°C 1 hour after tripping .

■ Typical time-to-trip-at 23°C



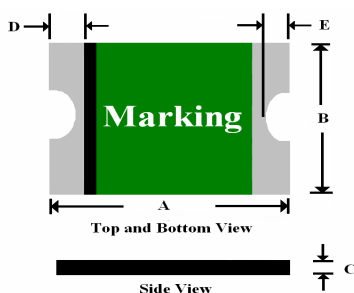
Z =SN005
A =SN010
B =SN012
C =SN016
D =SN020
E =SN025
F =SN035
G =SN050
H =SN075
I =SN100
J =SN110
K =SN150
L =SN200

■ Thermal Derating Curve



■ SN Product Dimensions (UNIT: mm)

PART NUMBER	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
SN005-60	3.00	3.50	1.50	1.80	0.45	0.85	0.10	0.75	0.10	0.45
SN010-60	3.00	3.50	1.50	1.80	0.45	0.85	0.10	0.75	0.10	0.45
SN012-48	3.00	3.50	1.50	1.80	0.45	0.85	0.10	0.75	0.10	0.45
SN016-48	3.00	3.50	1.50	1.80	0.45	0.75	0.10	0.75	0.10	0.45
SN020-30	3.00	3.50	1.50	1.80	0.45	0.75	0.10	0.75	0.10	0.45
SN025-16	3.00	3.50	1.50	1.80	0.45	0.75	0.10	0.75	0.10	0.45
SN025-24	3.00	3.50	1.50	1.80	0.45	0.75	0.10	0.75	0.10	0.45
SN035-16	3.00	3.50	1.50	1.80	0.30	0.75	0.10	0.75	0.10	0.45
SN035-30	3.00	3.50	1.50	1.80	0.90	1.30	0.25	0.75	0.10	0.45
SN050-08	3.00	3.50	1.50	1.80	0.25	0.55	0.10	0.75	0.10	0.45
SN050-24	3.00	3.50	1.50	1.80	0.80	1.20	0.25	0.75	0.10	0.45
SN075-08	3.00	3.50	1.50	1.80	0.45	1.25	0.25	0.75	0.10	0.45
SN075-16	3.00	3.50	1.50	1.80	0.45	1.25	0.25	0.75	0.10	0.45
SN100-06	3.00	3.50	1.50	1.80	0.45	1.00	0.25	0.75	0.10	0.45
SN110-06	3.00	3.50	1.50	1.80	0.45	1.00	0.25	0.75	0.10	0.45
SN110-16	3.00	3.50	1.50	1.80	0.80	1.40	0.25	0.75	0.10	0.45
SN150-08	3.00	3.50	1.50	1.80	0.80	1.40	0.25	0.75	0.10	0.45
SN200-06	3.00	3.50	1.50	1.80	0.85	1.60	0.25	0.75	0.10	0.45

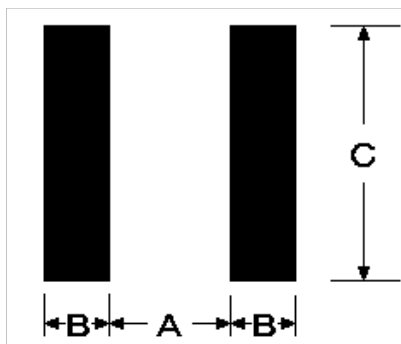


■ Standard Package for Reference

P/N	Reel/Tape	P/N	Reel/Tape	P/N	Reel/Tape	P/N	Reel/Tape
SN005-60	3K	SN025-16	3K	SN050-24	3K	SN110-16	2K
SN010-60	3K	SN025-24	3K	SN075-08	3K	SN150-08	2K
SN012-48	3K	SN035-16	4K	SN075-16	3K	SN200-06	2K
SN016-48	3K	SN035-30	3K	SN100-06	3K		
SN020-30	3K	SN050-08	4K	SN110-08	3K		

■ Pad Layouts and Soldering Reflow Recommendations

The dimension in the table below provide the recommended pad layout for each surface mount device



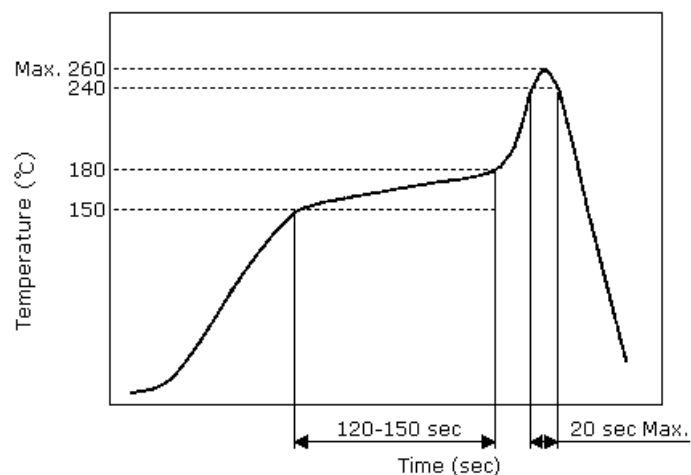
Pad dimensions(millimeters)			
Device	A Nominal	B Nominal	C Nominal
SL MODEL	5.10	2.30	5.60
SB MODEL	3.40	1.50	4.60
SD/RSD MODEL	3.45	1.78	3.50
SM/RSM MODEL	2.00	1.00	2.80
SN/RSN MODEL	2.00	1.00	1.90
SR/RSR MODEL	1.20	1.00	1.50
SS/RSS MODEL	0.80	0.60	0.80

■ SOLDERING REFLOW (LEAD FREE)

- 1.Suggested reflow methods: IR, vapor phase oven, hot air oven.
- 2.Recommended maximum paste thickness is 0.25mm.
- 3.Devices are not designed to wave soldered to the bottom side of the board.

■ CAUTION

If reflow temperatures exceed the recommended standard, devices may not be able to meet the performance requirements.



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