

TSF4S-50RF

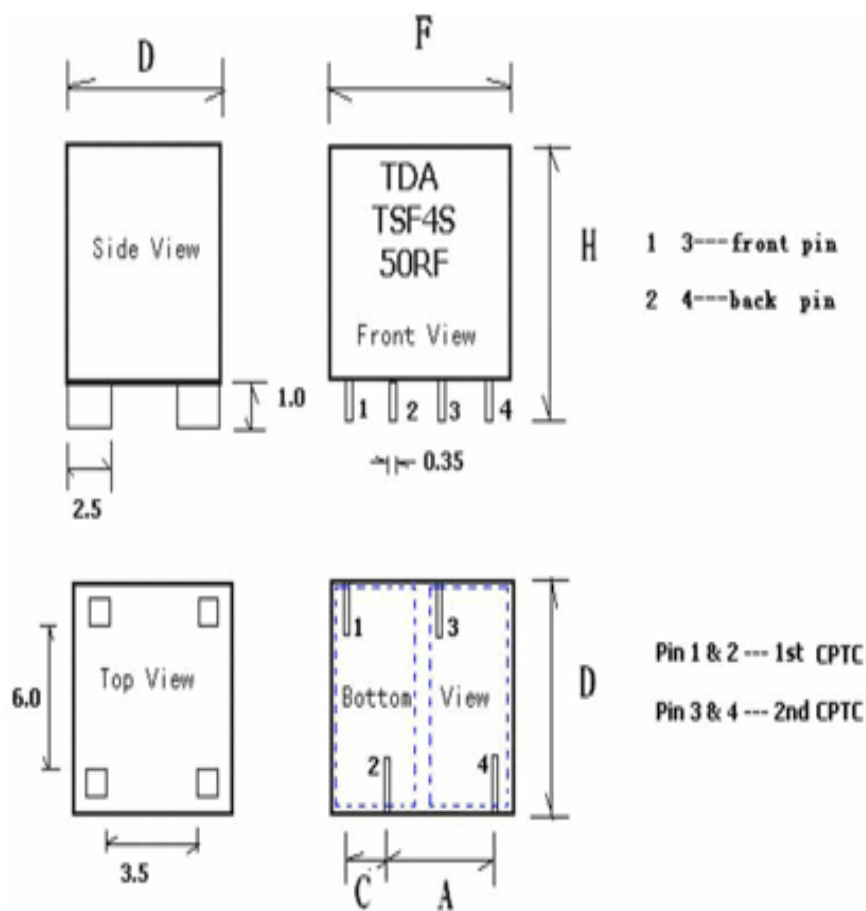
● SAFETY APPROVAL

TUV: R50074554

● APPLICATION:

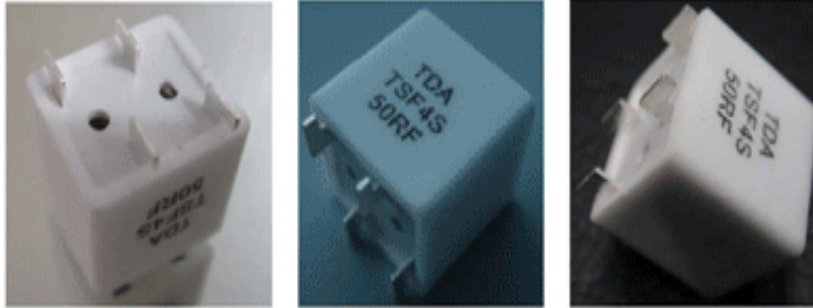
CPTC thermistor for overcurrent and short circuit protection

● APPEARANCE AND SIZE:

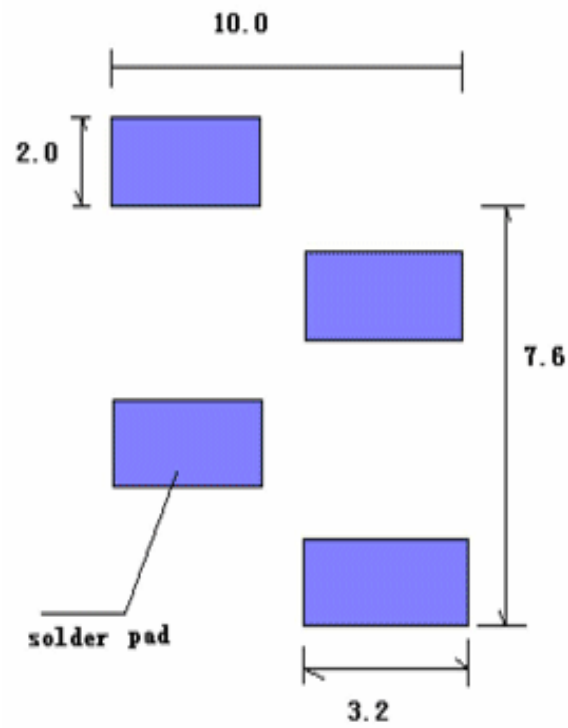


Unit: mm

A	C	D	F	H
$5.0 \pm 0.2$	$2.5 \pm 0.1$	$8.8 \pm 0.2$	$10.0 \pm 0.2$	$10.7 \pm 0.2$



● SOLDER PAD SIZE(mm):



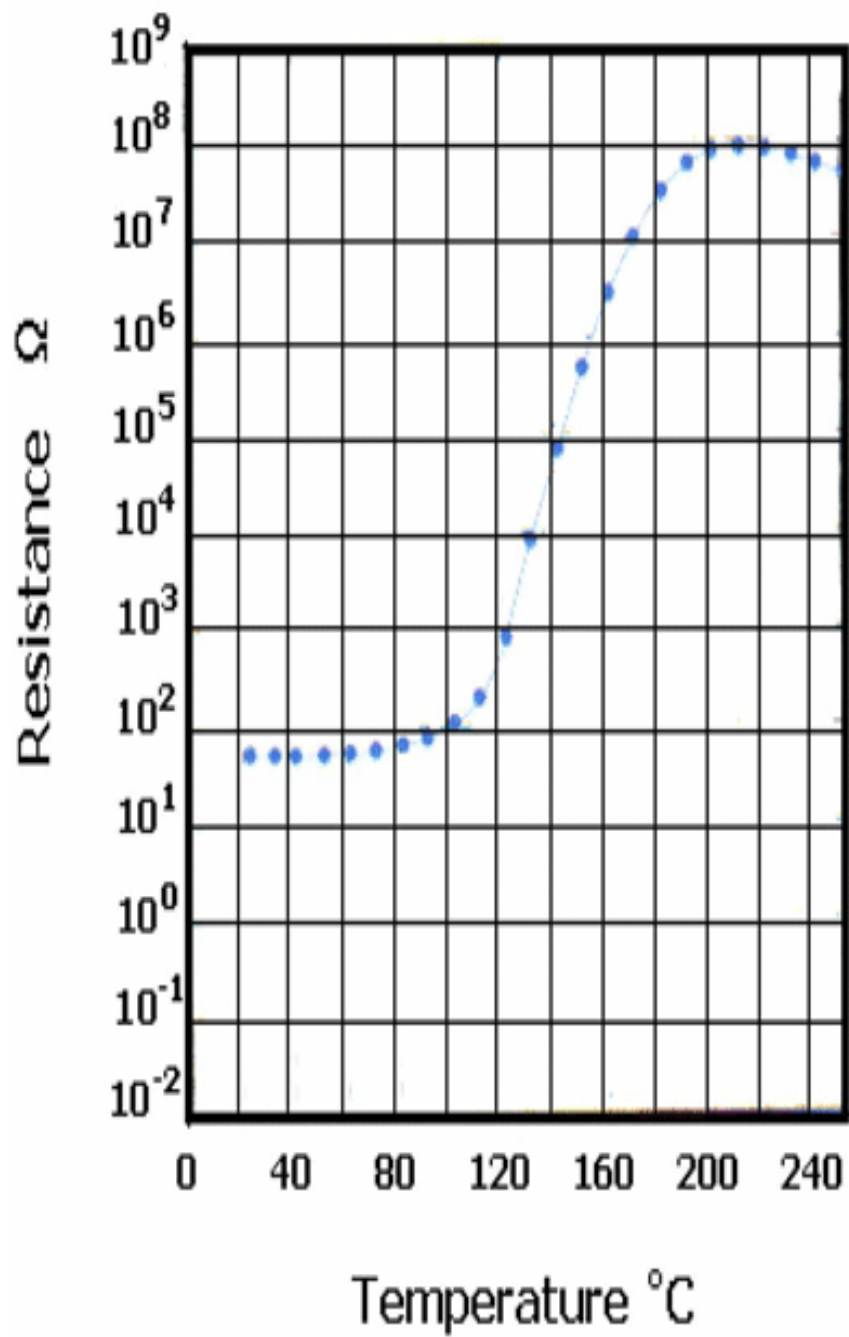
● MARKING:

TDA  
TSF4S  
50RF

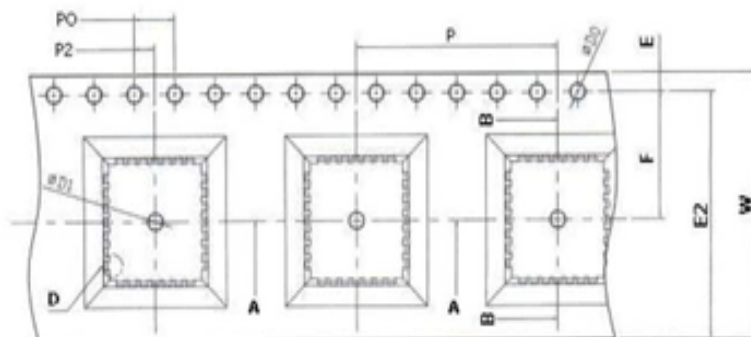
● **ELECTRICAL REQUIREMENTS:**

No	Electrical Characteristics	Min.	Typ.	Max.	Unit
1	Rated zero power resistance (25°C)	45	50	55	Ω
2	The initial resistance deference of two PTC thermistor at 25°C			0.5	Ω
3	Hold current 40±2°C	50			mA
4	Switching time 3A→0.5A 1A→0.5A 0.35A→0.15A			100 400 7	mS mS S
5	Recovery time			60	S
6	Surge test : 10/1000μs, 1.0KV, 25A, impulse 30 times, No crack and fire		25		A
7	Power induction test: AC600, 1A, On 1s, Off 60 s, 10 times, No damage and fire		600		V
8	Power conduct test: AC 250V, no current-limited resistance For 15min, no damage		250		V
9	Power induction test: AC220V, 3A, on 1 min, off 10min, 20times, ΔR/R≤20%		220 3		V A

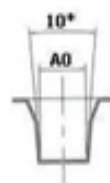
● R-T CURVE:



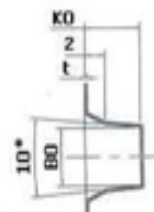
● PACKAGE:



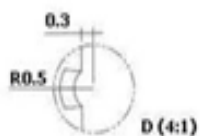
SIZE	(mm)
E	1.75±0.10
E2	22.25 MIN
F	11.50±0.10
P2	2.00±0.10
ØD <sub>o</sub>	1.50± <sup>0.10</sup> / <sub>0.00</sub>
ØD <sub>1</sub>	1.50 MIN
P <sub>o</sub>	4.00±0.10
10P <sub>o</sub>	40.00±0.20
W	24.30 MAX
P	20.00±0.10
A <sub>o</sub>	9.20±0.10
B <sub>o</sub>	10.40±0.10
K <sub>o</sub>	11.00±0.10
t	0.50±0.05



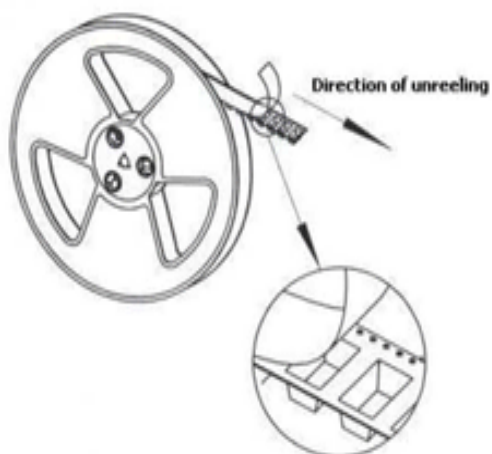
A - A (1:2)

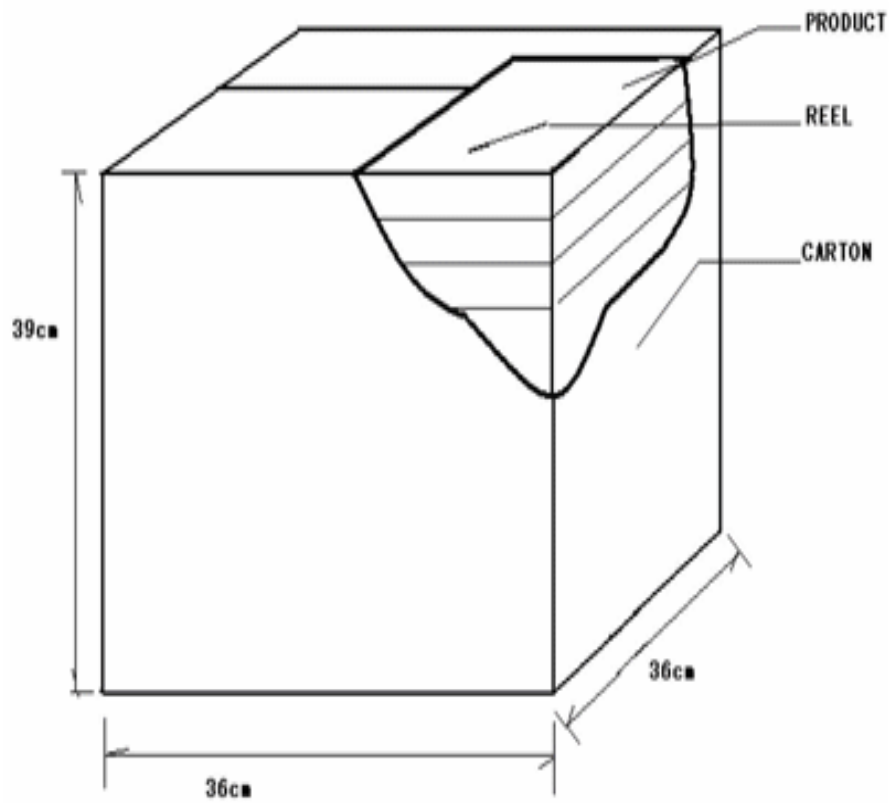


B - B (1:2)



D (4:1)





Package	Form	Qty (pcs)	Gross Weight (kg)
Standard Package	Tape & Reel	300	1.0 ~ 1.2
Carton Packing	Carton	3000	11

TSF4S-50RF weight/pcs: 2.6-2.8g