

FEATURES

- | I(hold): 0.05~3.75A
- | RoHS compliant, Lead-Free
- | Fast time-to-trip
- | Bulk packaging, or tape and reel available
- | Low resistance
- | Radial leaded device



APPLICATIONS

- | PC motherboard - plug and
- | play protection
- | Industrial controls
- | Automotive electronics
- | Medical products

ENVIRONMENTAL SPECIFICATIONS

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs	$\leq R_{max}$
Humidity aging	+85°C, 85%R.H., 1000 hrs	$\leq R_{max}$
Thermal shock	+125°C to -55°C, 10times	$\geq R_{min}$
Resistance to solvent	MIL-STD-202, Method 215	No change
Vibration	MIL-STD-202, Method 201	No change
Ambient operating conditions : - 40°C to +85°C Maximum surface temperature of the device in the tripped state is 125 °C		

PERFORMANCE SPECIFICATION

Type Number	I_{hold}	I_{trip}	V_{max}	I_{max}	$P_{d\ typ}$	Max. Time to Trip		R_{min}	R_{max}
	A	A	V_{DC}	A	W	Current A	T_{max} S	Ω	Ω
SK72-005	0.05	0.15	72	40	0.26	0.25	8.0	7.3	20
SK72-010	0.10	0.3	72	40	0.38	0.5	5.0	2.5	7.5
SK72-017	0.17	0.34	72	40	0.48	0.85	5.0	2	5.21
SK72-020	0.2	0.4	72	40	0.41	1.0	5.0	1.5	2.84
SK72-025	0.25	0.5	72	40	0.45	1.25	5.0	1.0	1.95
SK72-030	0.30	0.6	72	40	0.49	1.5	5.0	0.76	1.38
SK72-040	0.40	0.8	72	40	0.56	2.0	5.0	0.45	0.88
SK72-050	0.50	1.0	72	40	0.77	2.5	5.0	0.40	0.79
SK72-065	0.65	1.3	72	40	0.88	3.25	5.0	0.31	0.50
SK72-075	0.75	1.5	72	40	0.92	3.75	5.0	0.25	0.42
SK72-090	0.90	1.8	72	40	0.99	4.5	5.0	0.20	0.33
SK72-110	1.10	2.2	72	40	1.5	5.5	8.0	0.15	0.27
SK72-135	1.35	2.7	72	40	1.7	6.75	8.0	0.12	0.21
SK72-160	1.60	3.2	72	40	1.9	8.0	8.0	0.09	0.16
SK72-185	1.85	3.7	72	40	2.1	9.25	8.0	0.08	0.14
SK72-200	2.00	4.0	72	40	2.3	10.0	8.0	0.07	0.14
SK72-250	2.50	5.0	72	40	2.5	12.5	8.0	0.05	0.10
SK72-300	3.00	6.0	72	40	2.8	15.0	8.0	0.04	0.08
SK72-375	3.75	7.5	72	40	3.2	18.75	24.0	0.03	0.06

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

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

I_{hold} = Hold Current. Maximum current device will not trip in 25°C still air.

I_{trip} = Trip Current. Minimum current at which the device will always trip in 25°C still air.

P_d = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

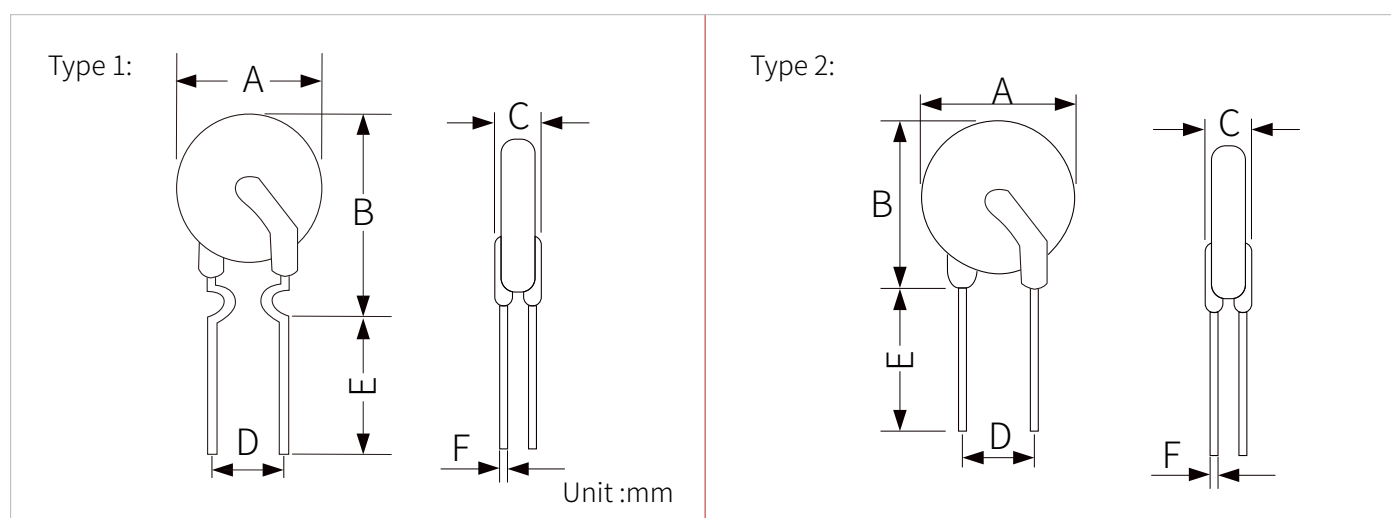
$R_{min/max}$ = Minimum/Maximum device resistance prior to tripping at 25°C.

$R1_{max}$ = Maximum device resistance is measured one hour post reflow.

THERMAL DERATING CHART-IH(A)

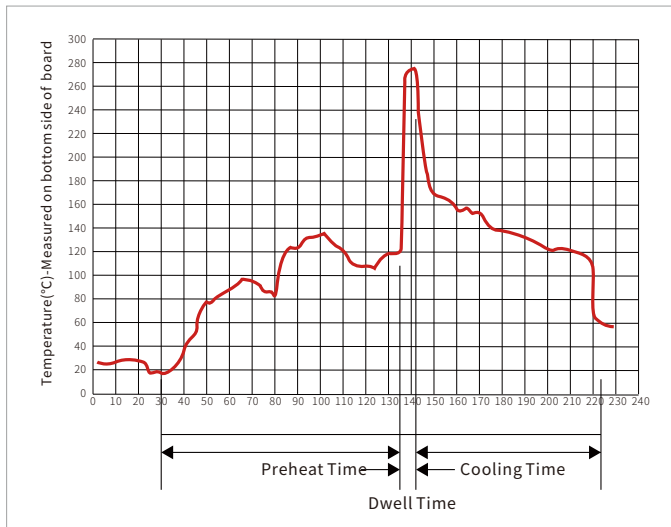
Part Number	Ambient Operation Temperature									
	-40 °C	-20 °C	0 °C	25 °C	30 °C	40 °C	50 °C	60 °C	70 °C	85 °C
SK72 Series	147%	136%	119%	100%	90%	81%	72%	63%	54%	40%

DIMENSIONS



Part Number	A(max)	B(max)	C(max)	D	E(min)	F(mm)	TYPE
SK72-005	5.5	9.5	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-010	5.5	9.5	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-017	7.4	12.7	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-020	7.4	12.7	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-025	7.4	12.7	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-030	7.4	13.0	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-040	7.8	16.2	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-050	7.8	16.2	3.0	5.1±0.75	4.6	Φ0.5	TYPE 1
SK72-065	9.7	17.8	3.0	5.1±0.75	4.6	Φ0.6	TYPE 1
SK72-075	10.4	18.4	3.0	5.1±0.75	4.6	Φ0.6	TYPE 1
SK72-090	11.7	18.4	3.0	5.1±0.75	4.6	Φ0.6	TYPE 1
SK72-110	13.0	18.0	3.0	5.1±0.75	4.6	Φ0.8	TYPE 2
SK72-135	14.5	19.6	3.0	5.1±0.75	4.6	Φ0.8	TYPE 2
SK72-160	16.3	21.3	3.0	5.1±0.75	4.6	Φ0.8	TYPE 2
SK72-185	17.8	22.9	3.0	5.1±0.75	4.6	Φ0.8	TYPE 2
SK72-200	17.8	22.9	3.0	5.1±0.75	4.6	Φ0.8	TYPE 2
SK72-250	21.3	26.4	3.0	10.2±0.75	4.6	Φ0.8	TYPE 2
SK72-300	21.3	26.4	3.0	10.2±0.75	4.6	Φ0.8	TYPE 2
SK72-375	28.5	33.5	3.0	10.2±0.75	4.6	Φ0.8	TYPE 2

WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

ORDERING INFORMATION

Part Number	Base Quantity	Packing Option
SK72-005~SK72-110	1000pcs	Bulk
SK72-135~SK72-200	500pcs	Bulk
SK72-250~SK72-500	200pcs	Bulk

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