

Performance Specification

Model	I _H (A)	I _T (A)	V _{max}	I _{max}	P _d	Maximum Time-to-Trip		Resistance (mΩ)	
			V _(DC)	A	W	Current (A)	Time (S)	R _{min}	R _{max}
JK16-010(T)	0.1	0.3	16	100	0.38	0.5	5	1500	7500
JK16-025(T)	0.25	0.5	16	100	0.45	1.25	5	500	1950
JK16-030(T)	0.3	0.6	16	100	0.49	1.5	5	300	700
JK16-050(T)	0.5	1.0	16	100	0.56	2.5	5	200	500
JK16-075(T)	0.75	1.5	16	100	0.72	3.75	5	100	320
JK16-090(T)	0.9	1.8	16	100	0.83	4.5	5	90	180
JK16-110(T)	1.1	2.2	16	100	0.94	5.5	5	60	150
JK16-135(T)	1.35	2.7	16	100	1.2	6.75	5	40	130
JK16-160(T)	1.6	3.2	16	100	1.4	8	5	40	110
JK16-200(T)	2	4	16	100	2.2	6	15	35	75
JK16-300	3	6	16	100	2.3	9	15	20	60
JK16-400	4	8	16	100	2.4	12	15	20	40
JK16-500	5	10	16	100	2.6	15	15	14	25
JK16-600	6	12	16	100	2.8	18	15	10	21
JK16-700	7	14	16	100	3.0	21	15	8	15
JK16-800	8	16	16	100	3.0	24	15	6	13
JK16-900	9	18	16	100	3.3	27	25	4	12
JK16-1000	10	20	16	100	3.7	30	30	4	11
JK16-1100	11	22	16	100	3.7	33	30	3	9
JK16-1200	12	24	16	100	4.2	36	30	3	8
JK16-1300	13	26	16	100	4.2	39	50	3	8
JK16-1400	14	28	16	100	4.2	40	50	3	7

I_H=Hold current:Maximum current at which the device will not interrupt in 25°C still air.

I_T=Trip current:Minimum current at which the device from low resistance to high resistance in 25°C still air.

V_{max}=Maximum continuous voltage device can withstand without damage at rated current.

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

Maximum Time-to-trip:Maximum time to trip at assigned current.

P_d=Typical power dissipation:Typical amount of power dissipated from the device when in 25°C still air environment.

R_{min}=Minimum resistance of device at 25°C prior to tripping.

R_{max}=Maximum resistance of device at 25°C prior to tripping.

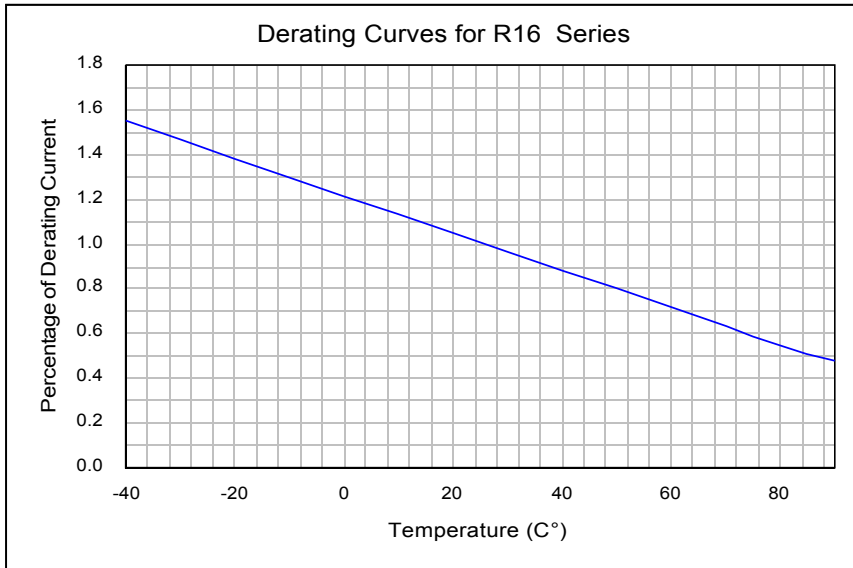
Environmental Specifications

Test	Conditions	Resistance change
Passive Aging	+85°C, 1000hours	≤R _{max}
Humidity Aging	+85°C, 85%R.H.1000hours	≤R _{max}
Thermal Shock	+125°C to -55°C, 10 Times	≥R _{min}
Solvent Resistance	MIL-STD-202, Method 215F	No change
Vibration	MIL-STD-202, Method 201	No change

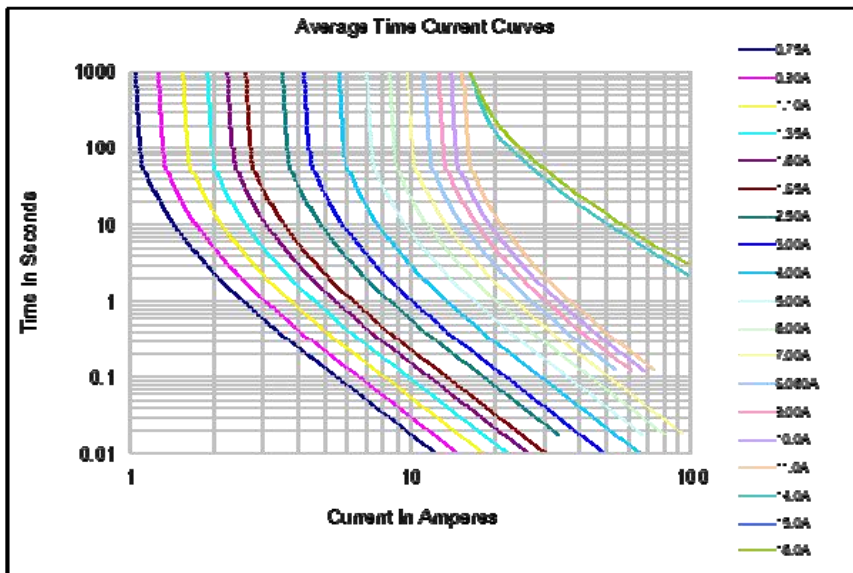
Agency Approval and Environmental Compliance

Agency	File Number	Regulation
UL	pending	
TUV	pending	 TÜVRheinland® Precisely Right. No. R 50108769

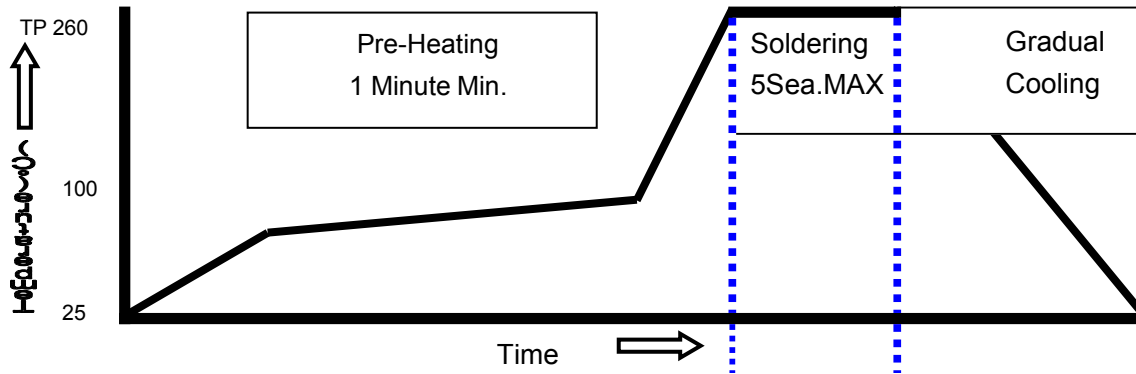
Thermal Derating Curve



Average Time-Current Curve



Soldering Parameters



WAVE SOLDERING INFORMATIONS

Pre-Heating Zone	Max. ramping rate should not exceed 4°C/Sec.
Soldering Zone	Max. solder temperature should not exceed 260°C
Cooling Zone	Cooling by natural convection in air.

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Physical Dimensions(mm.)

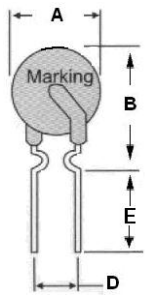


Fig.1

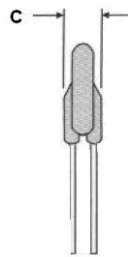


Fig.2

Unit : mm
JK16 Series

Model	Dimensions (mm)					Lead material Tinned metal(mm)	Shape Fig
	A(max)	B(max)	C(max)	D	E(min)		
JK16-010(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-025(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-030(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-050(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-075(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-090(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-110(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-135(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-160(T)	7.4	14.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-200(T)	9.0	12.0	3.0	5.1±0.75	7.6	24 AWG/Φ0.5	2
JK16-300	9.0	12.0	3.0	5.1±0.75	4.6	20 AWG/Φ0.8	2
JK16-400	10.0	13.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-500	11.8	17.5	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-600	13.5	17.5	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-700	13.5	23.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-800	13.5	23.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-900	15.0	24.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-1000	18.0	26.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2

JK16 Series Surface Mount PTC Devices

JK16-1100	18.0	26.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-1200	22.5	26.0	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2
JK16-1300	24.0	30.0	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2
JK16-1400	24.0	30.0	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2

Note: Dimensions in the A, B, C are the maximum sizes, all typical values of D is at the tolerance of ± 0.75mm.

Thermal Derating Chart-IH (A)

Model	Maximum ambient operating temperature (°C)									
	-40°C	-20°C	0°C	25°C	30°C	40°C	50°C	60°C	70°C	85°C
JK16 series	147%	132%	120%	100%	90%	88%	80%	71%	61%	47%

PHYSICAL SPECIFICATIONS

JK16-010(T)~JK16-600 1000Pcs/Bag or 2000Pcs/Box
 JK16-700~JK16-900 500 Pcs/Bag
 JK16-1000~JK16-1400 200 Pcs/Ba

Website: <http://www.jksemit.com>

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