

Performance Specification

Model	I _{hold}	I _{trip}	V _{max}	V _{max}	I _{max}	P _d	Maximum Time		Resistance		
			Operating	Interrupt			To Trip		R _{i min.}	R _{i max.}	R _{1 max.}
	(mA)	(mA)	(Vdc)	(Vrms)	(A)	Typ.	Current (A)	Time (Sec)	(Ω)	(Ω)	(Ω)
JK250-020U	20	45	60	250	3	1.00	0.5	0.4	80	160	240
JK250-030U	30	65	60	250	3	1.00	0.5	0.5	60	120	180
JK250-040U	40	80	60	250	3	1.00	0.5	1.0	30	60	100
JK250-060U	60	120	60	250	3	1.00	0.5	0.5	20	60	90
JK250-080U	80	160	60	250	3	1.00	1.00	0.4	14	22	33
JK250-090U	90	180	60	250	3	1.00	1.00	0.5	10	20	31
JK250-110U	110	200	60	250	3	1.00	1.00	1.2	6.0	12	16
JK250-120	120	240	60	250	3	1.00	1.00	1.2	5.0	10	14
JK250-120U	120	240	60	250	3	1.00	1.00	1.2	6.0	11	16
JK250-145U	145	290	60	250	3	1.00	1.00	4	3.5	6.5	14
JK250-180T	180	650	60	250	10	1.00	1.00	1.5	1.0	2.2	4.0
JK250-180U	180	650	60	250	10	1.00	3.00	1.5	1.0	3.0	5.0
JK250-200U	200	400	60	250	10	1.00	3.00	5.0	3.0	6.0	9.0
JK250-400U	400	800	60	250	10	1.00	3.00	8.0	1.0	3.0	6.0
JK250-600U	600	1200	60	250	10	1.00	3.00	12.0	0.6	2.0	5.0
JK250-800U	800	1600	60	250	10	1.50	5.00	18.0	0.4	1.0	3.0
JK250-1000U	1000	2000	60	250	10	1.50	5.00	20.0	0.3	0.8	2.0
JK250-1200U	1200	2400	60	250	10	1.50	6.00	20.0	0.2	0.8	2.0
JK250-1500U	1500	3000	60	250	10	1.50	7.50	20.0	0.2	0.6	1.5
JK250-2000U	2000	4000	60	250	10	1.50	10.00	20.0	0.2	0.4	1.5

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.

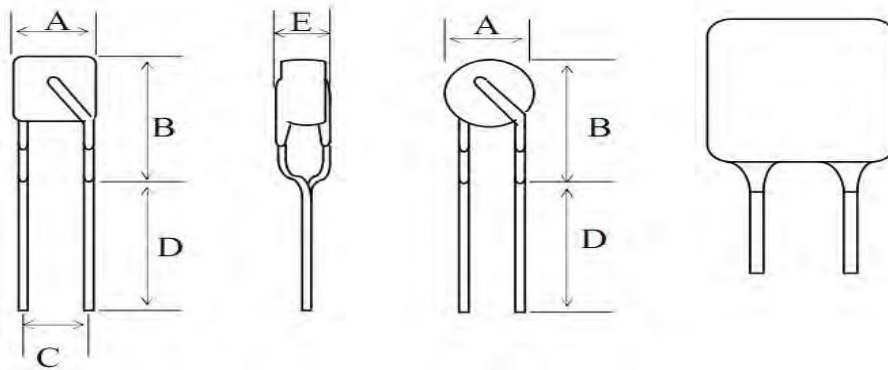
P_d = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

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

R_{1max} = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

Physical Dimensions(mm.)



Model	A	B	C	D	E
	Max.	Max.	Typ.	Min.	Max.
JK250-080	6.5	12.0	5.1	5.0	3.8
JK 250-090	6.5	12.0	5.1	5.0	3.8
JK 250-110	6.5	15.0	5.1	5.0	3.8
JK 250-120	7.0	15.0	5.1	5.0	3.8
JK 250-145	7.0	13.5	5.1	5.0	3.8
JK 250-180	10.5	16.5	5.1	5.0	3.8



Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	±5% typical
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±33% typical
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

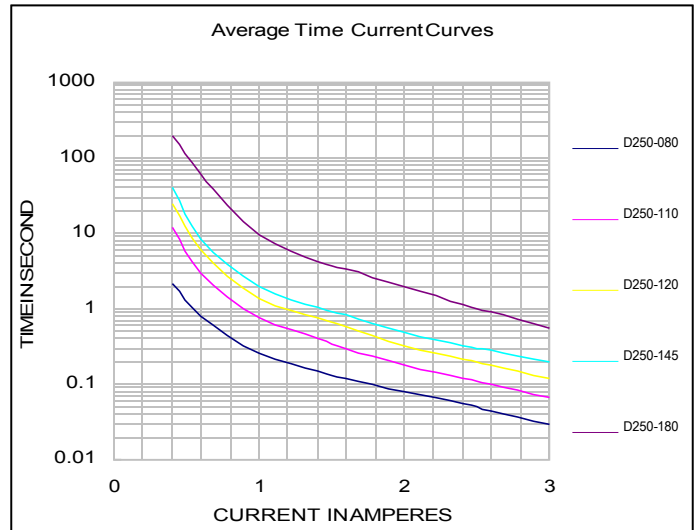
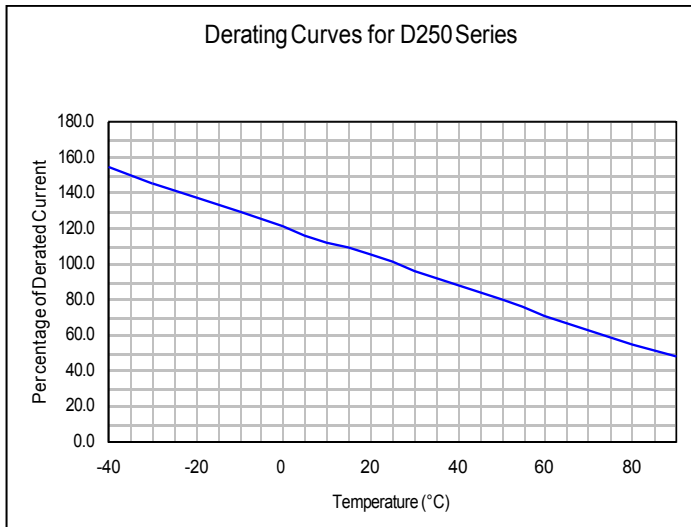
Maximum surface temperature of the device in the tripped state is 125 °C

Agency Approval and Environmental Compliance

Agency	File Number	Regulation	Standard
UL	pending		2002/95/EC
TUV	pending		R50077227

Thermal Derating Curve

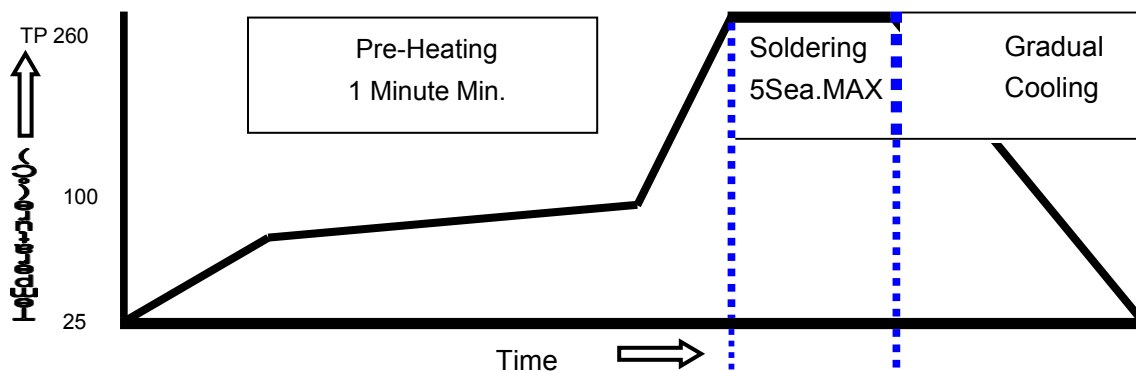
Average Time-Current Curve



I_{hold} Versus Temperature

Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
JK250-080	0.124	0.110	0.095	0.080	0.066	0.059	0.051	0.044	0.033
JK 250-090	0.140	0.124	0.107	0.090	0.074	0.066	0.057	0.050	0.037
JK 250-110	0.171	0.151	0.131	0.110	0.091	0.081	0.071	0.061	0.046
JK 250-120	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
JK 250-145	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
JK 250-180	0.279	0.247	0.213	0.180	0.147	0.131	0.115	0.099	0.074

Soldering Parameters

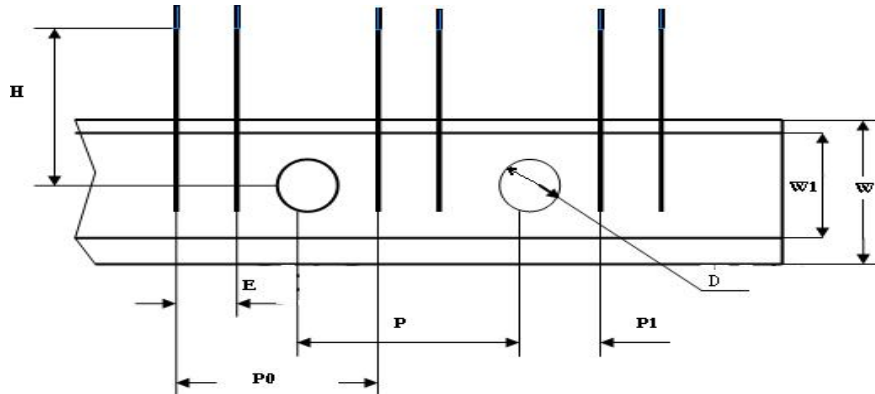


WAVE SOLDERING INFORMATIONS

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.

© Specifications are subject to change without notice.

Packaging Quantity



E	P	P0	P1	W1	w	H	D
5.0±0.5mm	12.7±1mm	12.7±1mm	3.85±0.7mm	12 (min)	18±1mm	16.5±1.0mm	4.0±0.5mm

Package Qty: 1000PCS/small box, 10 boxes/Carton

Small Box Dim: 330 (±4) mm×245 (±3) mm×43 (±2) mm

Carton Dim: 500 (±5) mm×350 (±4) mm×265 (±3) mm

JK250	120	U	Reel Q'ty	Bag Q'ty
Product	Hold	T= Pre-tripped	1000PCS	1000PCS
name	Current	U= Uncoated		
250V	(mA)	Blank= Standard		

Tape & Reel packaging per EIA468-B standard.

Warehouse Storage Conditions of Product s

(1) Storage Conditions :

- a.Storage Temperature : -10℃~+40℃
- b.Relative Humidity : ≅75%RH
- c. Keep away from corrosive atmosphere and sunlight.

(2) Period of Storage : 1 year

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

For additional information, please contact your local Sales Representative.

©Copyright 2016, jksemit