Performance Specification

Model	Ihold	Itrip	V_{max}	V_{max}	Imax	P_d	Maximum Time		Resistance		
			Operating	Interrupt			To Trip				
	(mA)	(mA)	(Vdc)	(Vrms)	(A)	Typ.	Current	Time	$Ri_{min.}$	$Ri_{max.}$	$R1_{max}$
						(W)	(A)	(Sec)	(Ω)	(Ω)	(Ω)
JK250-020U	20	45	60	250	3	1.00	0.5	0.4	70	160	240
JK250-030U	30	65	60	250	3	1.00	0.5	0.5	50	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	12	22	33
JK250-090U	90	180	60	250	3	1.00	1.00	0.5	10	20	31
JK250-100U	100	200	60	250	3	1.00	1.00	1.0	10	12	20
JK250-110U	110	220	60	250	3	1.00	1.00	1.2	6.0	12	16
JK250-120U	120	240	60	250	3	1.00	1.00	1.2	6.0	12	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	2.0	4.0	6.0
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	1.7	4.5
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	2.5
JK250-1200U	1200	2400	60	250	10	1.50	6.00	20.0	0.2	0.8	2.5
JK250-1500U	1500	3000	60	250	10	1.50	7.50	20.0	0.2	0.6	2.0
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 (Imax).

I max = Maximum fault current device can withstand without damage at rated voltage (Vmax).

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.

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

Ri min/max = Minimum/Maximum device resistance prior to tripping at25°C.

R1max = 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.)

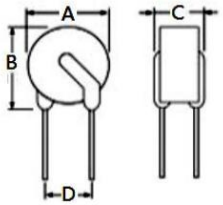


Fig.1

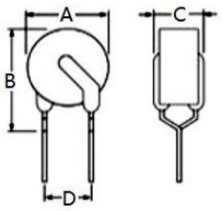


Fig.2

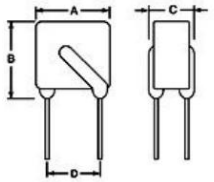


Fig.3

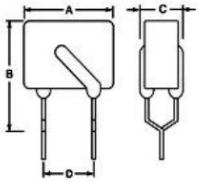


Fig.4

Model	Dimensions（mm）				Lead material	Shape
	A(max)	B(max)	C(max)	D(typ)	Tinned metal(mm)	Fig
JK250-020U	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1
JK250-030U	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1
JK250-040U	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1/2
JK250-050U	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1/2
JK250-060U	7.4	12.7	4.5	5.1	22AWG/Φ0.6	1/2
JK250-080U	7.4	12.7	4.5	5.1	22AWG/Φ0.6	2
JK250-090U	7.4	12.7	4.5	5.1	22AWG/Φ0.6	2
JK250-100U	7.8	12.6	4.5	5.1	22AWG/Φ0.6	1
JK250-110U	7.0	12.6	4.5	5.1	22AWG/Φ0.6	4
JK250-120U	7.0	12.6	4.5	5.1	22AWG/Φ0.6	4
JK250-145U	7.0	12.6	4.5	5.1	22AWG/Φ0.6	4
JK250-180T	10.2	14.5	3.8	5.1	22AWG/Φ0.6	2
JK250-180U	9.0	11.0	4.5	5.1	22AWG/Φ0.6	4
JK250-200U	12.0	17.0	4.5	5.1	22AWG/Φ0.6	3
JK250-400U	12.0	17.0	4.5	5.1	22AWG/Φ0.6	3
JK250-600U	16.0	18.0	4.5	5.1	22AWG/Φ0.6	3
JK250-800U	20.0	22.5	4.5	5.1	20 AWG/Φ0.8	3
JK250-1000U	20	22 5	4 5	5 1	20 AWG/Φ0 8	3
JK250-1200U	22	28	4.5	5.1	20 AWG/Φ0.8	3
JK250-1500U	25	30	4.5	5.1	20 AWG/Φ0.8	3
JK250-2000U	26	32	4.5	10.2	20 AWG/Φ0.8	3

Unit ： mm

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

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

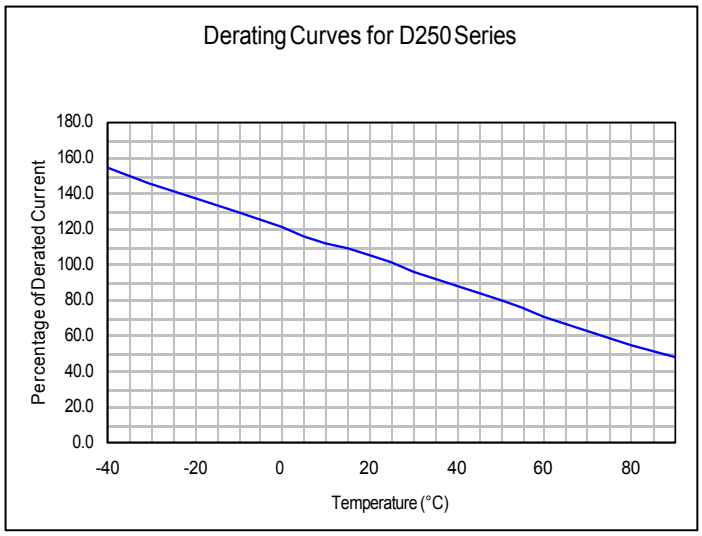
Ambient operating conditions : - 40 °C to +85 °C

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

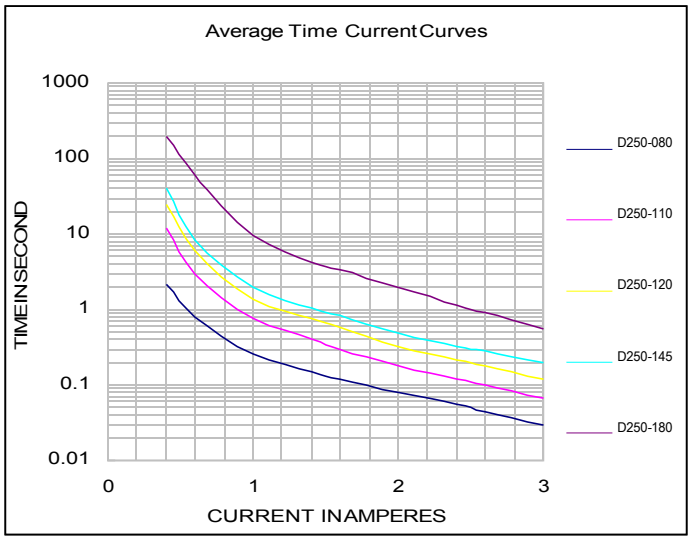
Agency Approval and Environmental Complianc

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

Thermal Derating Curve



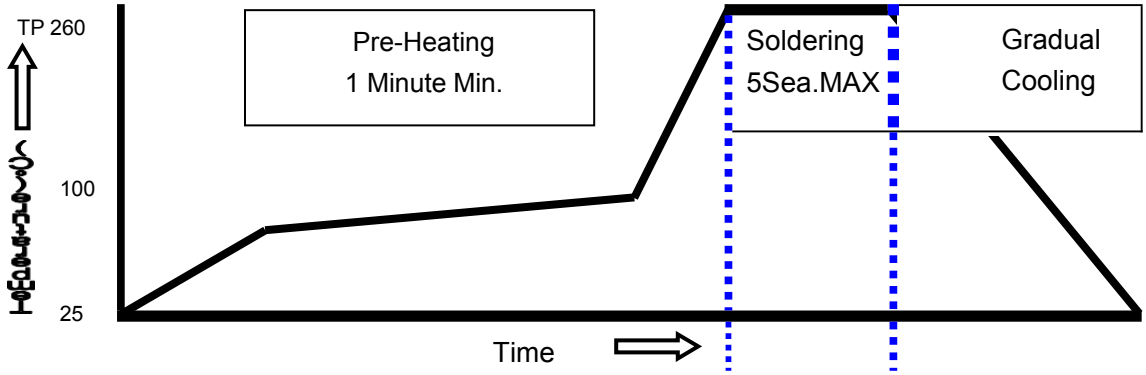
Average Time-Current Curve



Ihold Versus Temperature

Model	Maximum ambient operating temperature（℃）									
	-40℃	-20℃	0℃	25℃	30℃	40℃	50℃	60℃	70℃	85℃
JK250 series	148%	132%	117%	100%	91%	85%	77%	68%	61%	45%

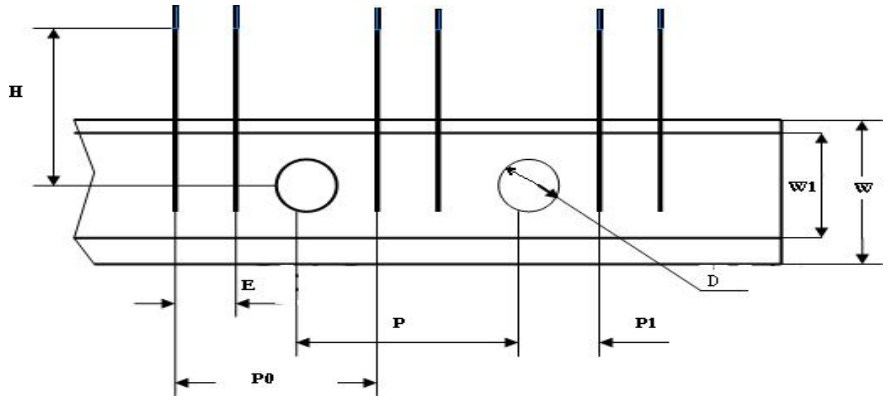
Soldering Parameters



WAVE SOLDERING INFORMATIONS

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

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