

FEATURES

- | I(hold): 0.11~0.16A
- | 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
- | Power ports

ENVIRONMENTAL SPECIFICATIONS

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hours	±8% typical
Humidity aging	+85°C, 85%R.H., 1000 hours	±8% typical
Thermal shock	+125°C to -55°C, 10times	±12% typical
Resistance to solvent	MIL-STD-202, Method 215F	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} Interrupt	I_{max}	$P_{d typ}$	Max. Time to Trip		Ri_{min}	Ri_{max}
	A	A	V_{RMS}	A	W	Current A	Tmax S	Ω	Ω
SK600-110	0.11	0.22	600	3	1.0	1.0	8.0	6.0	16
SK600-150	0.15	0.30	600	3	1.0	1.0	9.0	5.0	14
SK600-160	0.16	0.32	600	3	1.0	1.0	10	4.0	12

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.

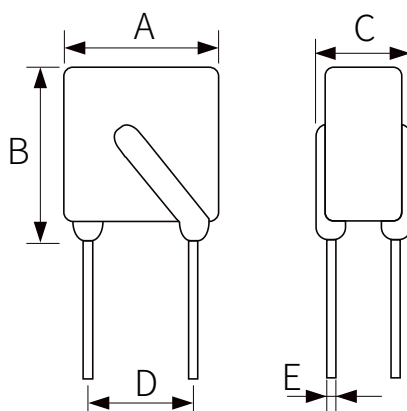
$Ri_{min/max}$ = Minimum/Maximum device resistance prior to tripping at 25°C.

$R1_{max}$ = 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	40 °C	50 °C	60 °C	70 °C	85 °C
SK600-110	0.162	0.152	0.131	0.11	0.913	0.0803	0.0704	0.0605	0.0462
SK600-150	0.221	0.207	0.178	0.15	0.125	0.110	0.096	0.825	0.063
SK600-160	0.235	0.221	0.190	0.16	0.133	0.117	0.102	0.088	0.0672

DIMENSIONS



Unit:mm

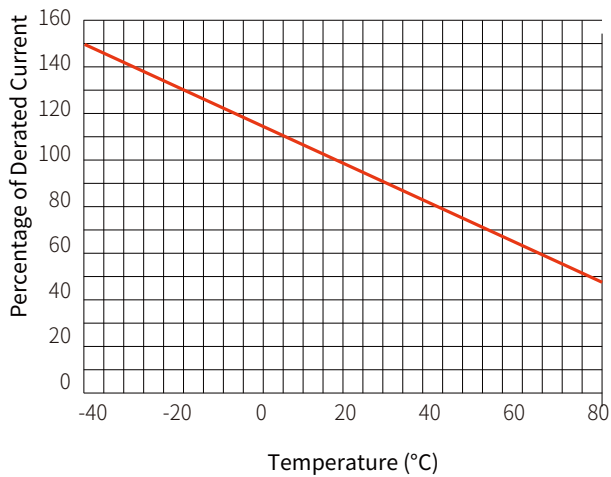
Part Number	A(max)	B(max)	C(max)	D(typ)	E
SK600-110	15	15	5.5	5.1	Φ0.6
SK600-150	15	15	5.5	5.1	Φ0.6
SK600-160	15	15	5.5	5.1	Φ0.6

ENVIRONMENTAL SPECIFICATIONS

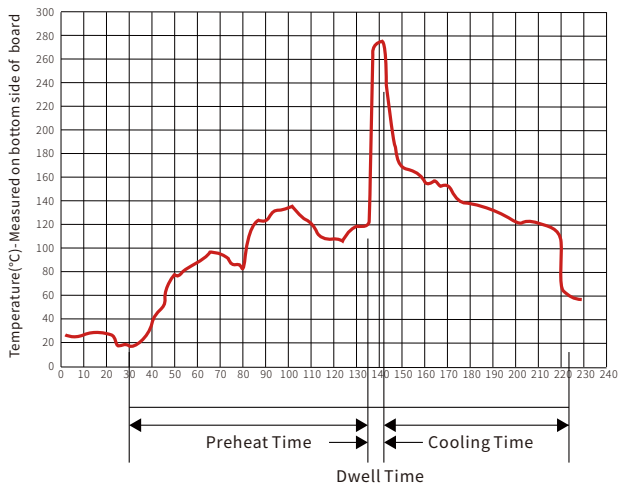
Items	Test Conditions	Accept/Reject Criteria
Resistance	In still air@25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current, V_{max} , 25°C	$T \leq \text{max. Time to trip}(T_{trip})$
Hold Current	60 min, at I_H	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 24 hours	No arcing or burning

PARAMETER CHARACTERISTIC CURVE

FIG.1: Thermal Derating Curve



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
SK600-110~SK600-160	200pcs	Bag

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