

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		$R_{i_{min}}$	$R_{i_{max}}$
	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.

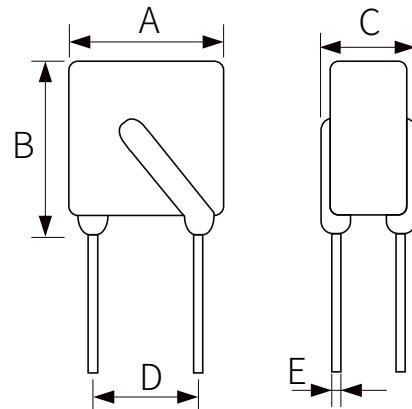
$R_{i_{min/max}}$ = Minimum/Maximum device resistance prior to tripping at 25°C.

$R_{1_{max}}$ = 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	0.0825	0.063
SK600-160	0.235	0.221	0.190	0.16	0.133	0.117	0.102	0.088	0.0672

DIMENSIONS



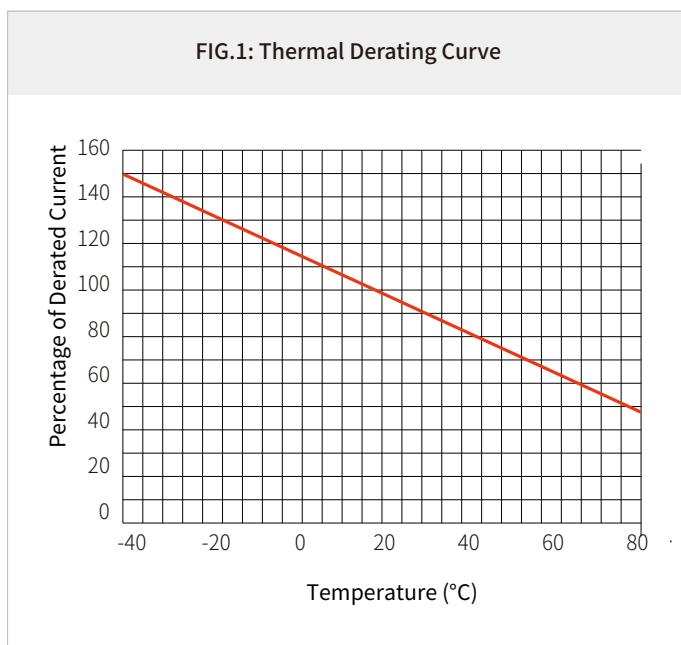
Unit :mm

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

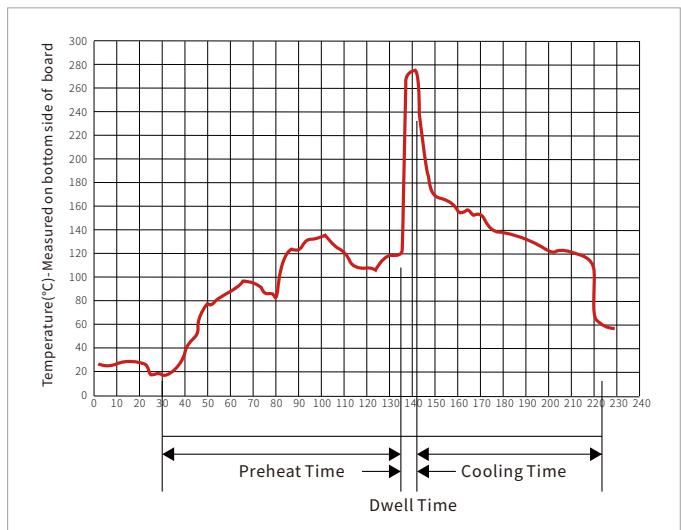
ENVIRONMENTAL SPECIFICATIONS

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

PARAMETER CHARACTERISTIC CURVE



WAVE SOLDERING



Wave Parameter	Lead-free assembly
Pre Heat	Temperature Min
	Temperature Max
	Time(min to max)
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

Headquarters

No.3387 Shendu Road
Pujiang I&E Park
Minhang Shanghai China
201000

Hotline

400-021-5756

Web

[Https://www.semiware.com](https://www.semiware.com)

Sales Center

Tel: 86-21-3463-7458
Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001
Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654
Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172
Ext: 8868
Email: cs03@semiware.com

By QR Code

Website



Wechat

To find your local partner within Semiware's global website: www.semiware.com

© 2022 Semiware Semiconductor Inc.

The content of this document has been carefully checked and understood. However, neither Semiware nor its subsidiaries assume any liability whatsoever for any errors or inaccuracies of this document and the consequences thereof. Published specifications are subject to change without notice. Product suitability for any area of application must ultimately be determined by the customer. In all cases, products must never be operated outside their published specifications. Semiware does not guarantee the availability of all published products. This disclaimer shall be governed by substantive Chinese law and resulting disputes shall be settled by the courts at the place of business of Semiware. Latest publications and a complete disclaimer can be downloaded from the Semiware website. All trademarks recognized.