Vincotech

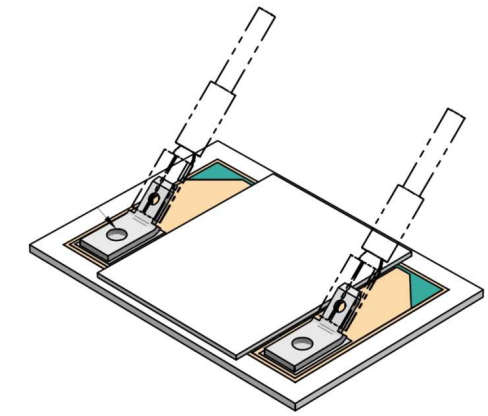
S30814-Q992-A
datasheet

Inrush current resistor — 400 Ω / 200 Ws

Features

- Ultra low profile thick-film on ceramic
- 2 kW peak power
- Easy spring fixing heatsink mountable
- Ideal for dynamic braking
- Available with fast-on terminals
- Pulse handling Capability
- Non-flammable construction
- Optional preapplied phase-change material available

Outline



Specification

Parameter	Symbol	Condition	Value	Unit
Resistance	R		400	Ω
Tolerance			±20	%
Energy	E	P_{max} = 2 kW/100 ms; T_s = 100 °C, f = 50 N (pressure to heatsink)	200	Ws
Power	P	T_s = 100 °C, f = 50 N (pressure to heatsink)	100	W
Isolation Voltage	V_t	Isolation to heatsink	4000	V
Maximum Junction Temperature	T_{jmax}	Limited by thermal paste	125	°C

Notes:
Repetitive energy on heatsink 200 Ws mounted on heatsink with preapplied phase change material with no forced air cooling (T_s = 100 °C, T_a = 25 °C)

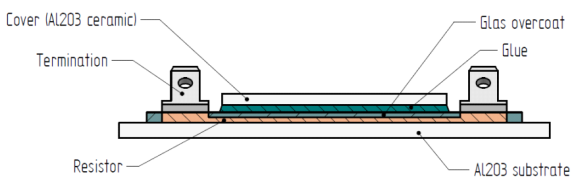
Mounted with spring

recommended spring force: min. 50 N

press down / fixing is recommended in the middle of the cover substrate on a minimum of dia. 7 mm circular area.

Recommended surface roughness of the heatsink: R_z < 0.01 mm

Construction



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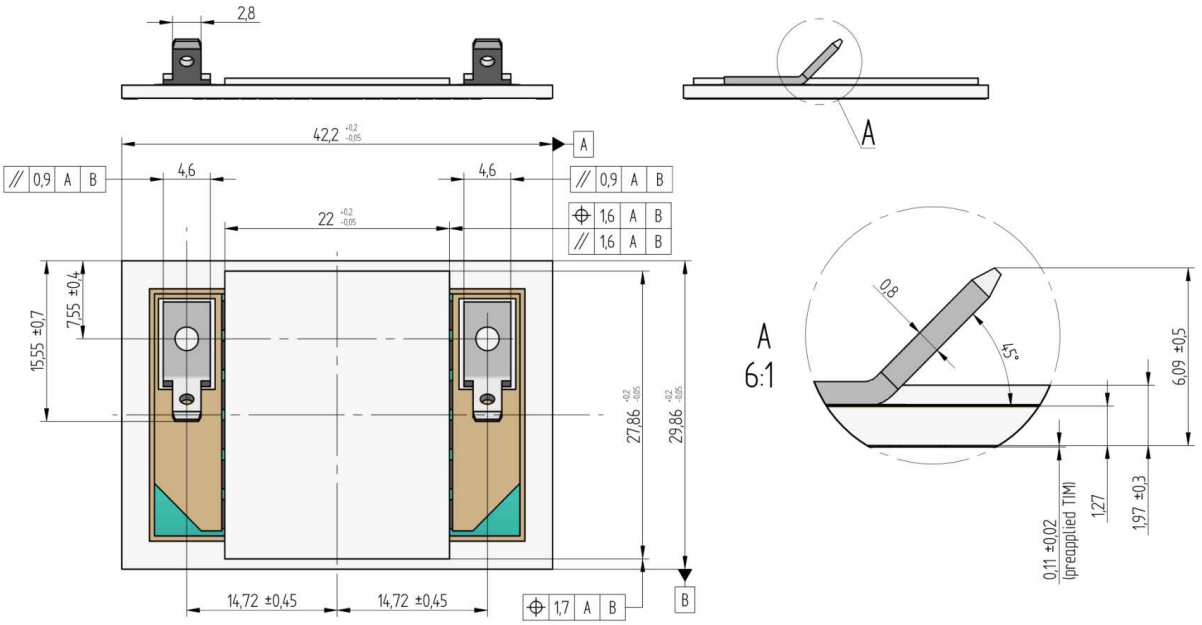
Qualification

Technology Qualification		
Test Item	**Test Conditions**	**Standard**
Temperature **S**hock (**TS**)	T_{STGmin} / $T_{STGmax.}$: -40 °C/+125 °C	DIN EN 60068-2-14
	100 cycles	Test Na
	t_{dwell} = 30 min (dwell time at each temperature)	MIL-STD-883E
	t_{change} < 30 sec (temperature change time)	Method 1010

Component Qualification		
Test Item	**Test Conditions**	**Standard**
High **T**emperature	T_{STG} = T_{jmax}	DIN EN 60068-2-2
Storage (**HTS**)	T_{STG} = 125 °C	
	t = 1000h (2*500h)	
High Humidity	T_{STG} = 85 °C; RH = 85%	DIN EN 60068-2-67
High **T**emperature		
Storage (**HHHTS**)	t = 1000h (2*500h)	

Mechanical Dimension [mm]



Ordering Code & Marking				
Version	**Ordering Code**			**in packaging barcode as**
with thermal paste	S30814-Q992-A-/3/			Q992-A
Q992-A 51 12345 0514	**Text**	**Name**	**Ver**	**Lot**
		Q992-A	51	12345
		Date code		
		0514		

Packaging instruction					
Standard packaging quantity (SPQ)	294	>SPQ	Standard	<SPQ	Sample

Handling instruction
For handling instructions see vincotech.com website.

Document No.:	Date:	Modification:	Pages
S30814-Q992A-D1-14	13 Jun. 2017		