

Ordering Guide

Sample Part Number: SKTC1-127-06-T100-SS-T0-F1-A10

Chip Model Number	Solder Type	Sealant	Thickness Tolerance	Flatness Tolerance	Ceramic Type	Ceramic Surface
<i>SKTC1-127-06</i>						
SKTC1-127-06 127 couples, 6A max	T100 BiSn (up to 138C)	NS No Sealant	T0 ±0.1 mm	F0 ±0.05 mm	A10 Alumina (96% white)	- None
	T200 CuSn (up to 227C)	SS Silicone sealant	T1 ±0.05 mm	F1 ±0.025 mm	A1N Aluminum Nitride	M Metalized
		ES Epoxy Sealant	T2 ±0.025 mm	F2 ±0.0125 mm		
		CS Customer specified sealant				

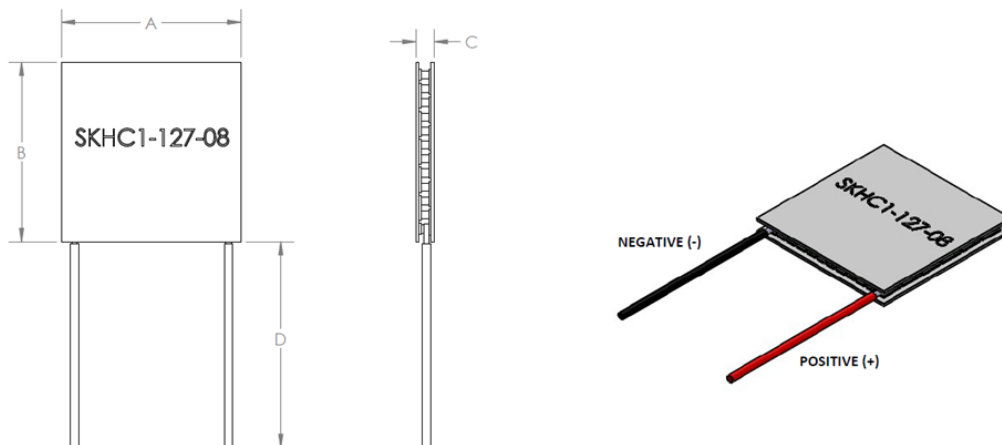
Performance Metrics

Chip Model Number	Hot Side Temp T_h (°C)	ΔT_{max} (°C)	Q_{max} (Watts)	I_{max} (Amps)	V_{max} (DC Volts)	R_{AC} (Ω)	TE Dimensions (mm)			
							A	B	C	D
SKTC1-127-06	27	74	66.0	6.3	16.8	2.05	40	40	3.8	150
SKTC1-127-06	50	83	73.6	6.3	18.0	2.25	40	40	3.8	150

Notes:

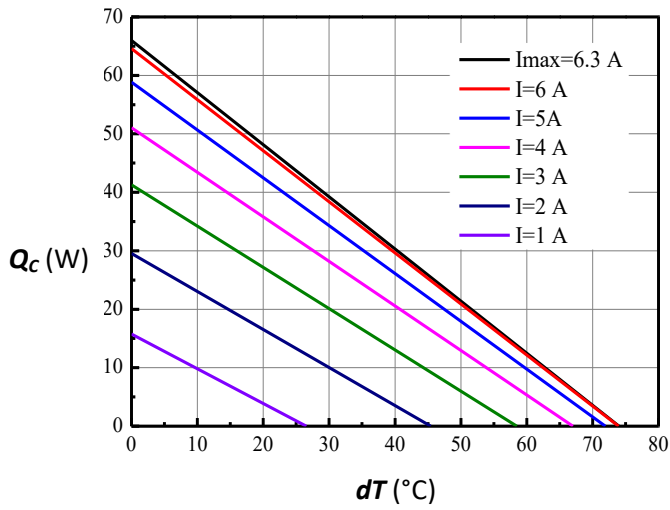
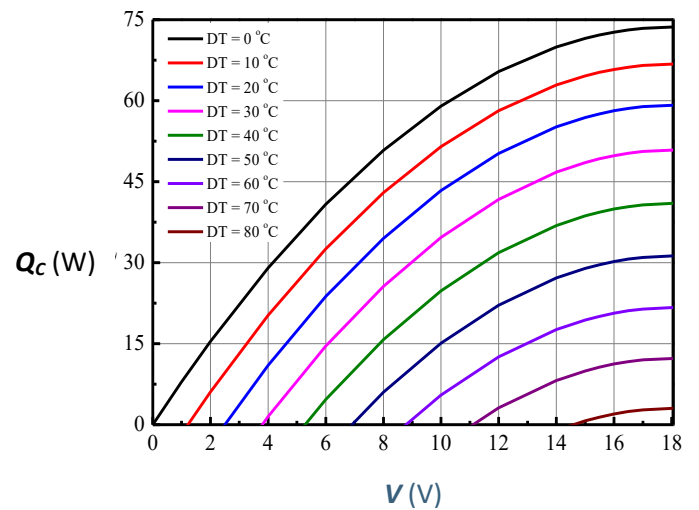
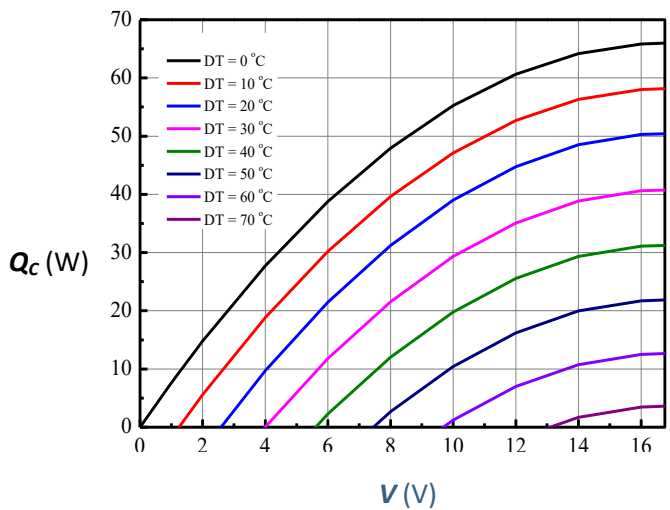
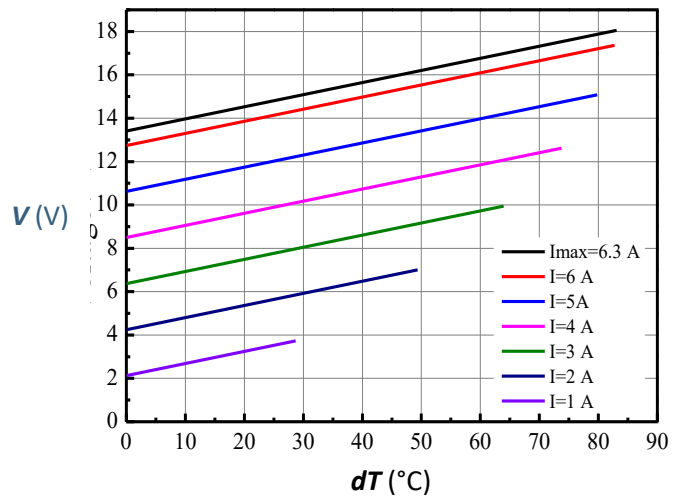
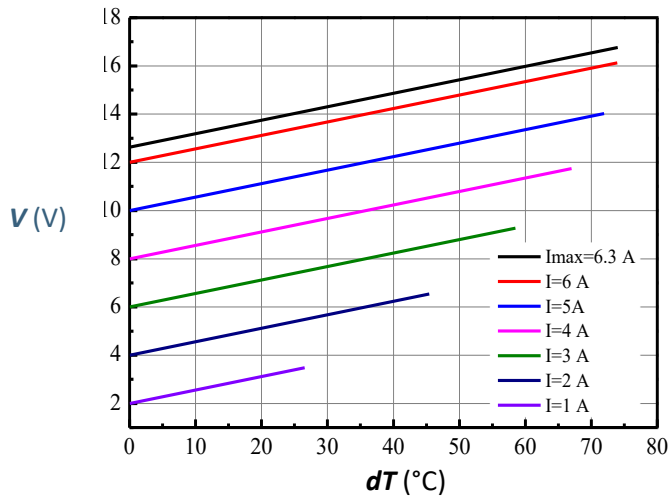
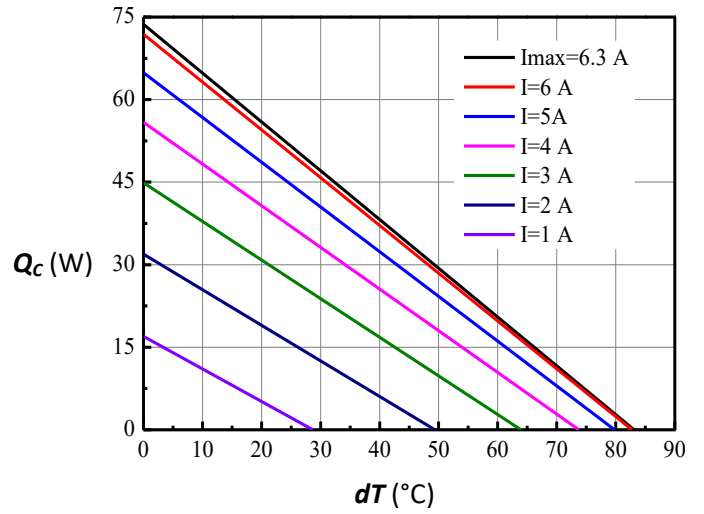
- All performance values fall within $\pm 10\%$ tolerance of tested data and/or models.
- Dimensions are typical and subject to change based on exact configuration ordered.
- Contact Sheetak at info@sheetak.com for additional performance data, chip options or customization

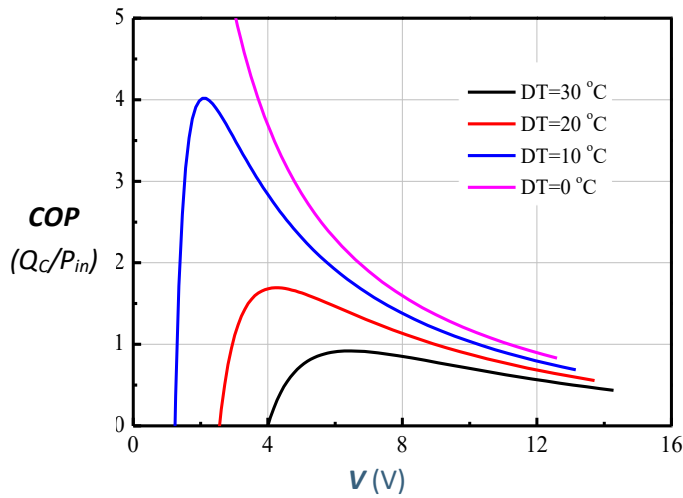
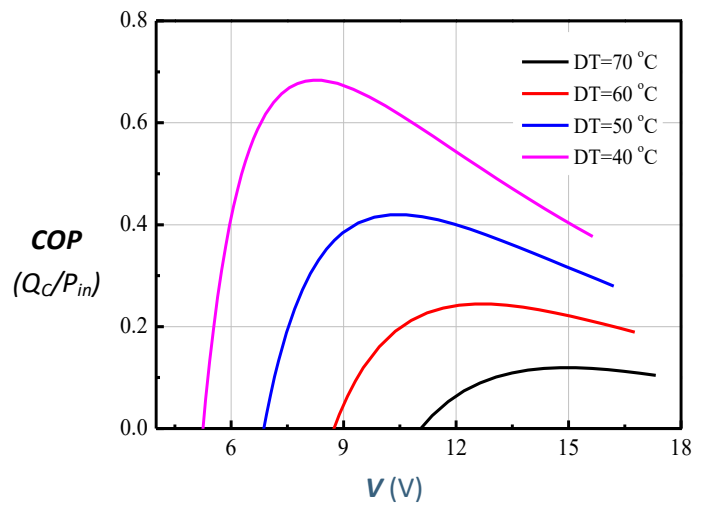
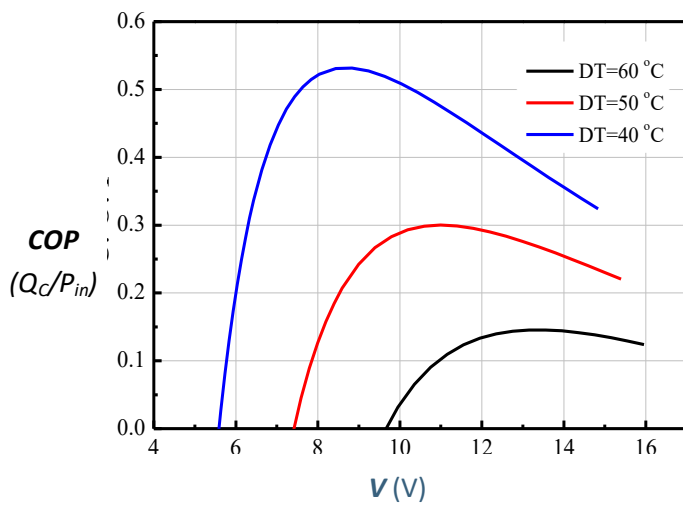
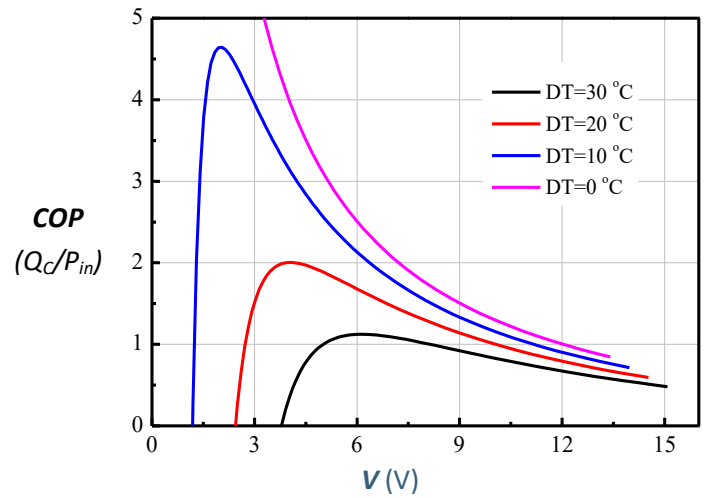
Chip Dimensions



Notes:

- Please see the *Ordering Guide* for flatness and thickness tolerances.
- Ceramic face with part number is the cold side and wires are soldered on the hot side.
- Some TECs may have a porch design or wires soldered on the side.

Performance Curves @ $T_H = 27^\circ\text{C}$

 Performance Curves @ $T_H = 50^\circ\text{C}$


Performance Curves @ $T_H = 27^\circ\text{C}$

 Performance Curves @ $T_H = 50^\circ\text{C}$


Thermal Cycle Lifetime Tests

