

## Ordering Guide

Sample Part Number: SKTC1-127-08-T100-SS-T0-F1-A10

Chip Model Number	Solder Type	Sealant	Thickness Tolerance	Flatness Tolerance	Ceramic Type	Ceramic Surface
<i>SKTC1-127-08</i>						
SKTC1-127-08 127 couples, 8A 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				

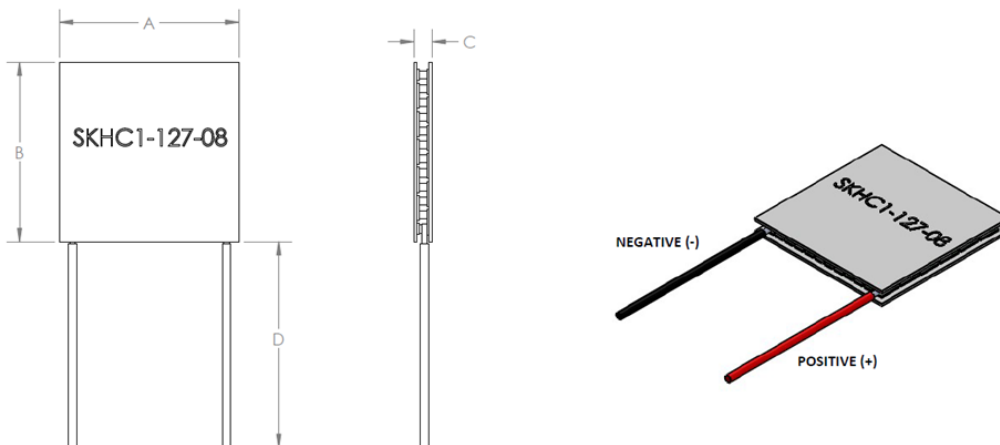
## Performance Metrics

Chip Model Number	Hot Side Temp $T_h$ (°C)	$\Delta T_{max}$ (°C)	$Q_{max}$ (Watts)	$I_{max}$ (Amps)	$V_{max}$ (DC Volts)	$R_{AC}$ ( $\Omega$ )	TE Dimensions (mm)			
							A	B	C	D
SKTC1-127-08	27	74	90.0	8.8	16.8	1.50	40	40	3.5	150
SKTC1-127-08	50	83	98.0	8.8	18.0	1.62	40	40	3.5	150

### Notes:

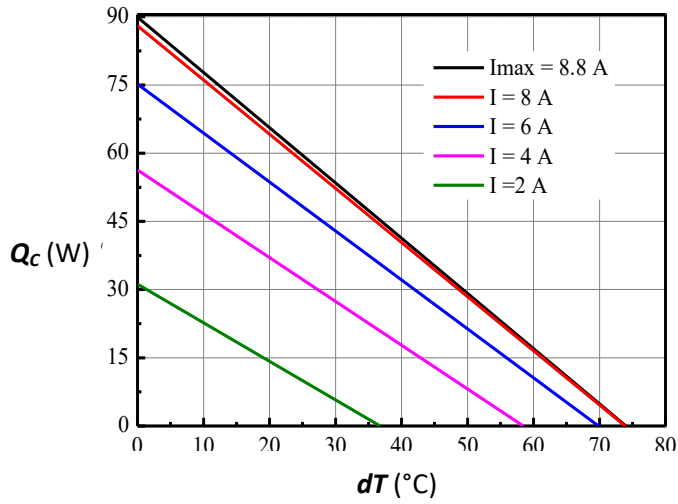
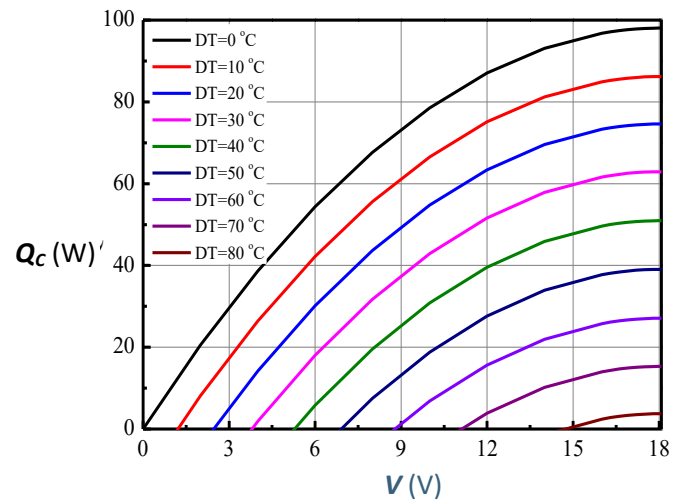
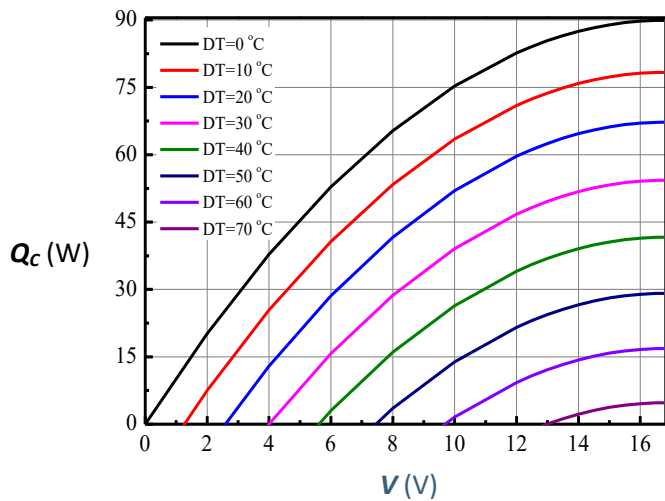
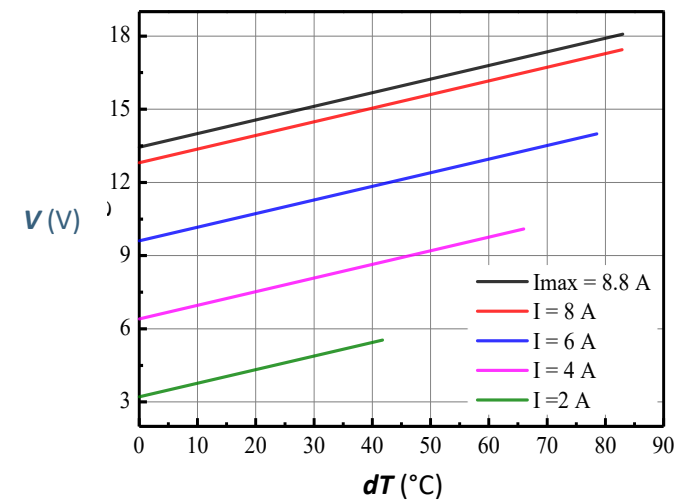
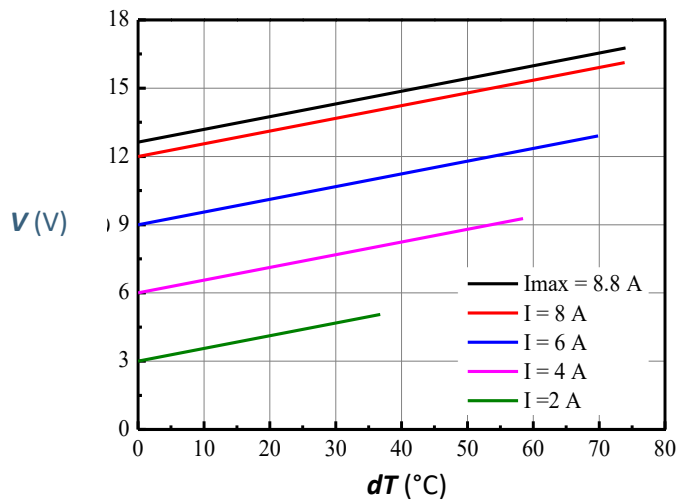
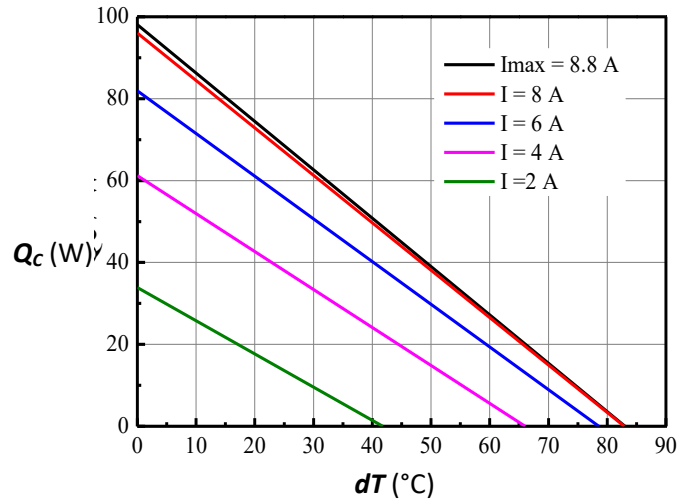
- All performance values fall within  $\pm 10\%$  tolerance of tested data and/or models.
- Dimensions are typical and subject to change based on exact configuration ordered.
- Contact Sheetak at [info@sheetak.com](mailto:info@sheetak.com) for additional performance data, chip options or customization

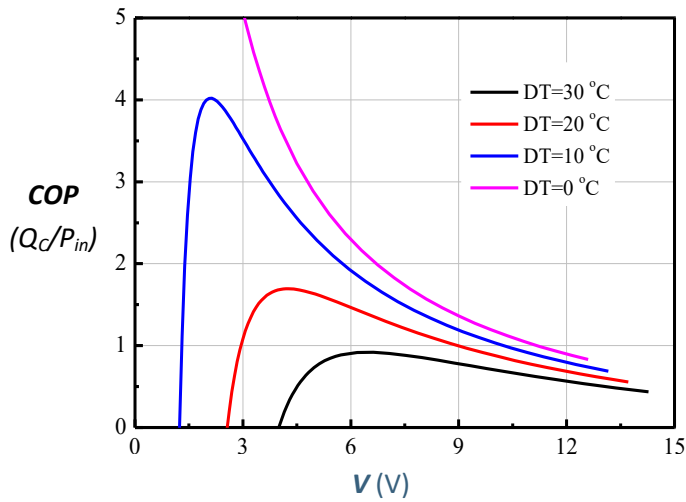
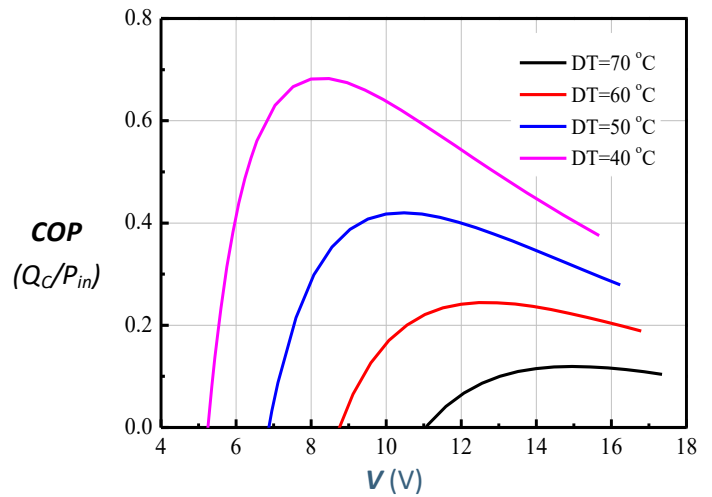
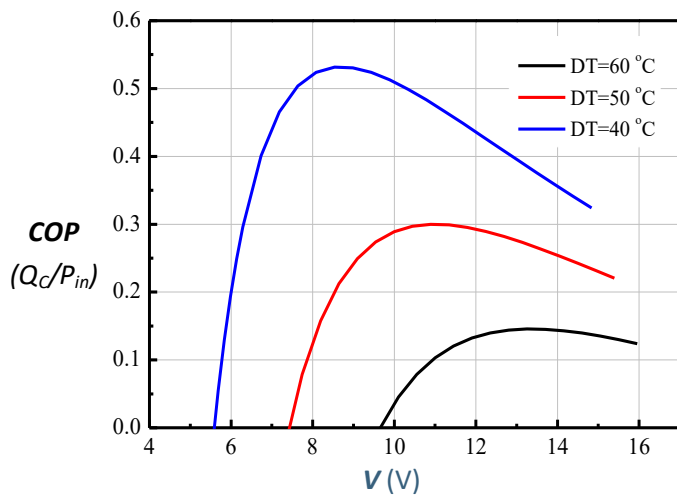
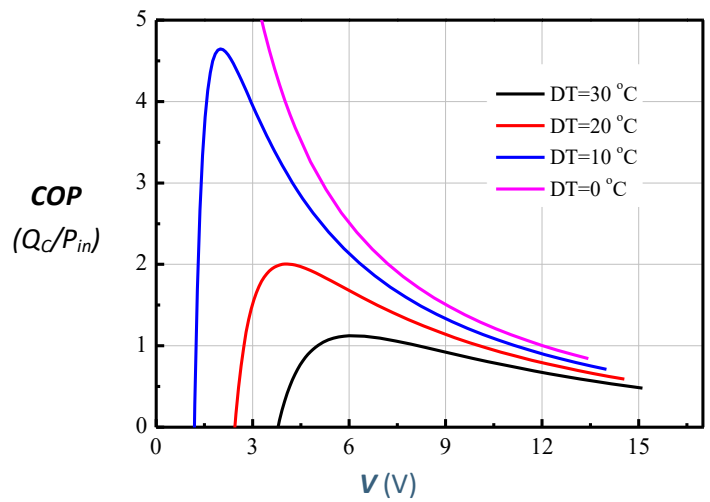
## Chip Dimensions



### 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

