

eTEG™ HV56 Power Generator

Preliminary Data Sheet

Description

The HV56 represents the second entry into the high voltage output thermoelectric generators from Nextreme. The HV56 is capable of producing 1.5mW of output power and an open circuit voltage of 0.25V at a 10K ΔT . At 50K ΔT , the HV56 can produce 36.5mW of power and an open circuit voltage of 1.25V. Modules can be configured electrically in series to produce higher voltage and power outputs.

eTEG HV56



eTEG HV56 Data Sheet
Thermoelectric Power Generator

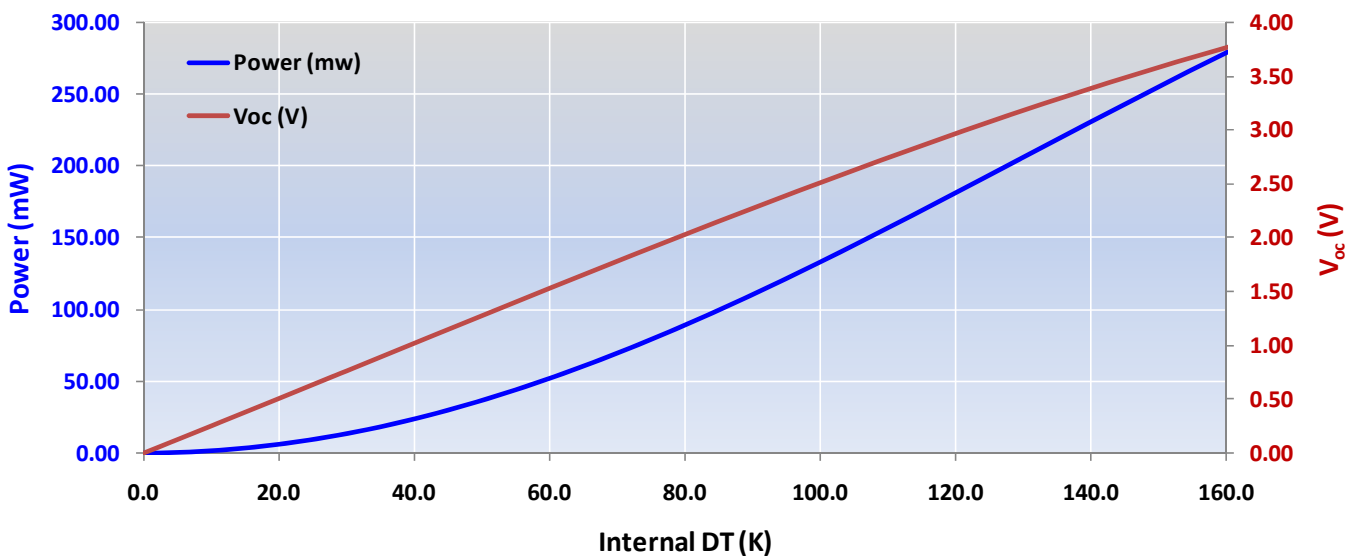
Part Number Options

Part Number	Description
NGA-1004850-0304A-W	With insulated wires
NGA-1004850-0304A-A	Gold wirebond compatible pads

Features

- High power output
- Small 3.1 mm X 3.3 mm footprint
- Extremely thin 0.56 mm profile
- Au surfaces on top and bottom headers
- RoHS compliant

Maximum Power Output and V_{oc} vs ΔT

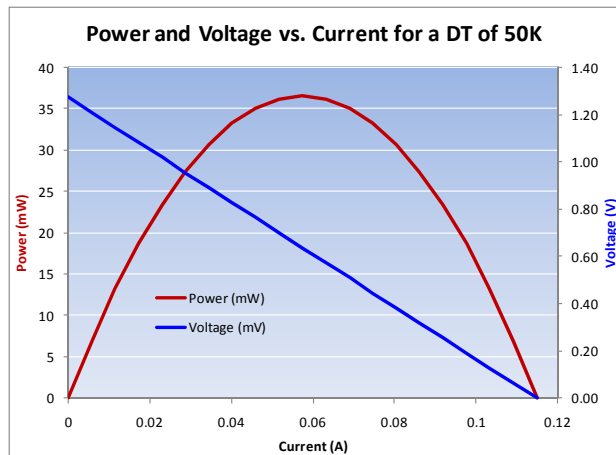
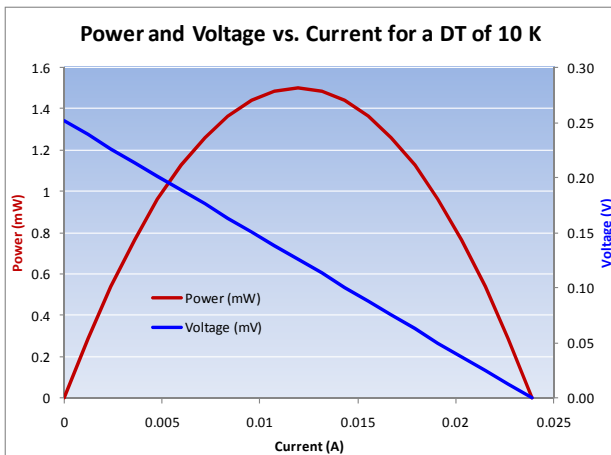


eTEG™ HV56 Power Generator

Preliminary Data Sheet

Operating Range			
Hot Side Temperature	T_{hot}	25-200°C	298-473K
Cold Side Temperature	T_{cold}	0-50°C	273-323K
Delta T	ΔT	15-200°C	15-200K
Maximum Mean Temperature	$T_{m,max}$	150°C	423K
Thermal Parameters			
Thermal Resistance	R	13.1 K/W	
Thermal Conductance	K	0.076 W/K	

Representative Power and Voltage vs. Current Curves



Product Dimensions (mm)

