

Photovoltaic Power Converter KPC8-T

Characteristics

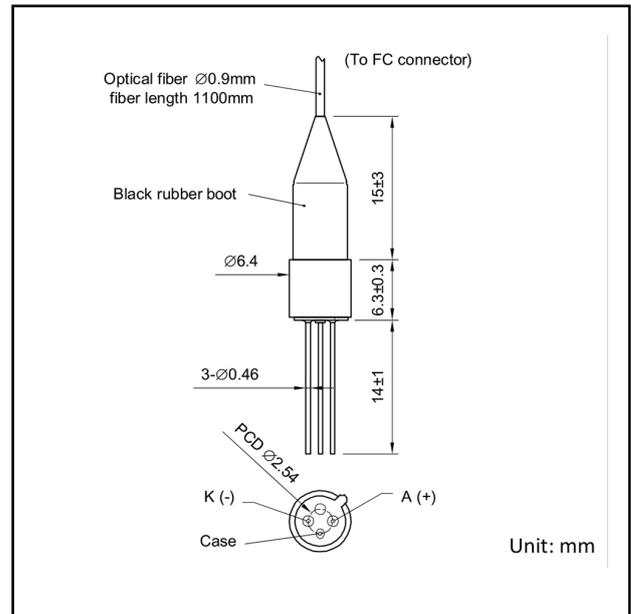
- Conversion of 1300-1600nm laser light into electric power
- Up to 3V-20mA output
- Single mode fiber pigtailed
- Complete electrical isolation

Applications

- Remote powered equipments
- Electro-magnetic sensitive antenna

Package

- PIGTAIL



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Maximum optical power input	P_{imax}	200	mW	-
Output current	I_{out}	+/-30	mA	-
Operating temperature	T_{opr}	-40 to +70		Avoid dew condensation
Storage temperature	T_{stg}	-40 to +85		Avoid dew condensation

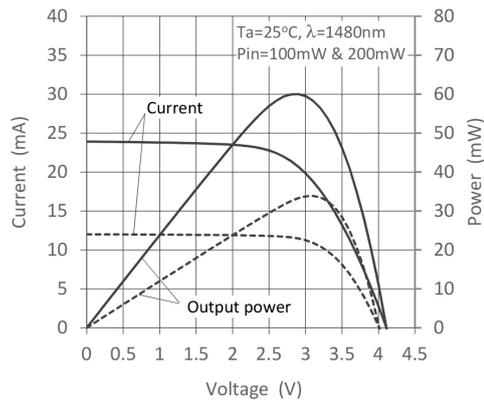
Electrical and Optical characteristics (Ta=25 unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Sensitive wavelength		1300	-	1600	nm	-
Maximum output power	P_{max}	30	34	-	mW	=1480nm Pin=100mW
Open circuit voltage	V_{op}	-	4	-	V	=1480nm Pin=100mW
Short Circuit Current	I_{sh}	-	12	-	mA	=1480nm Pin=100mW
Conversion efficiency		30	34	-	%	=1480nm Pin=100mW
Operating wavelength	λ_{op}	1300	-	1600	nm	-

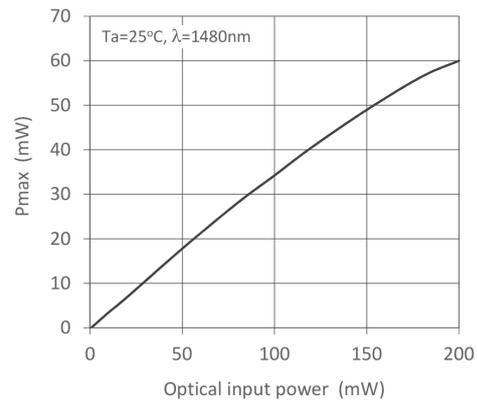
Pigtail Specifications characteristics

Parameter	Spefication	Unit	Conditions
Optical fiber type	Single mode fiber	null	0.9mm
Optical connector	FC	-	AdPC polished
Optical fiber length	1100 ± 100	mm	-

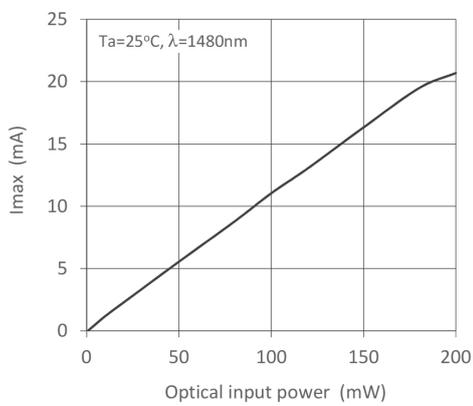
Current, Output Power - Voltage



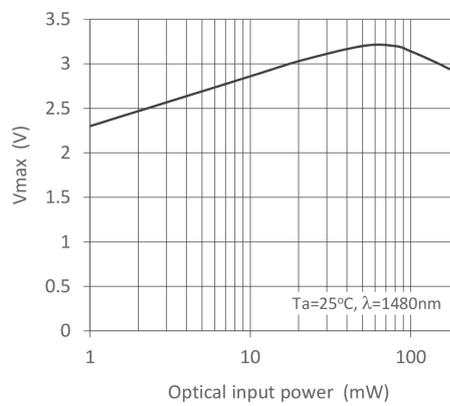
P_{max} - Optical Input Power



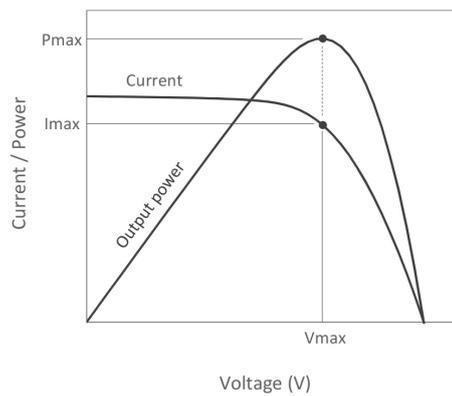
I_{max} - Optical Input Power



V_{max} - Optical Input Power



Definition of P_{max} , I_{max} and V_{max}



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