



JIC 0.1 E29 SiC Photodetector

CHARACTERISTICS

Spectral range	210 to 380	nm
Active area	0.055	mm ²
High UV sensitivity		

APPLICATIONS

UV measurement
UV monitoring
Flame detection

MAXIMUM RATINGS

Maximum operating voltage	+/-8*	V
Power consumption	180	mW
Operating temperature range	-25 to 70	°C
Storage temperature range	-40 to 100	°C
Soldering temperature (3s)	260	°C

* also available as +15V

TECHNICAL DATA

Common test conditions, if not otherwise specified: $T_a = 25^{\circ}\text{C}$, $V_{CC} = +5\text{V}$

Parameter	Test conditions	Min.	Typ.	Max	Unit
Dark offset voltage	$E = 0 \text{ lx}$		+/-1	+/-5	mV
Saturation voltage			+4.5		V
Noise voltage	$B = 150\text{Hz}$		0.5		mV _{rms}
Absolute spectral responsivity	$\lambda = 254\text{nm}$		80		mV/nW
Feedback resistor			1		GΩ
Response time	Pin 1 open		2.5		ms
Bandwidth	-3 dB		150		Hz
Operating voltage		+/-3	+/-5	+/-8	V
Current Consumption			+/-0.2		mA

