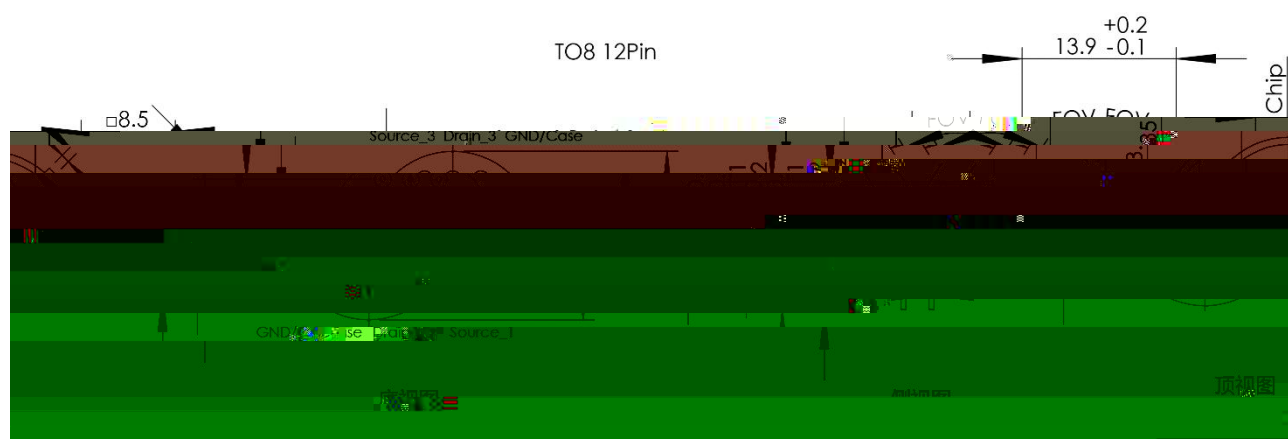


LVF442 series

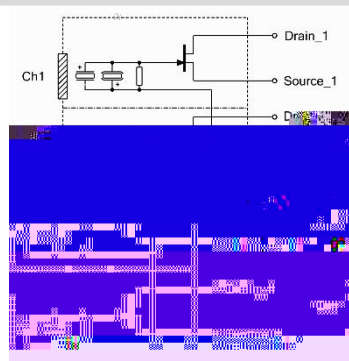
Application

Flame Detection

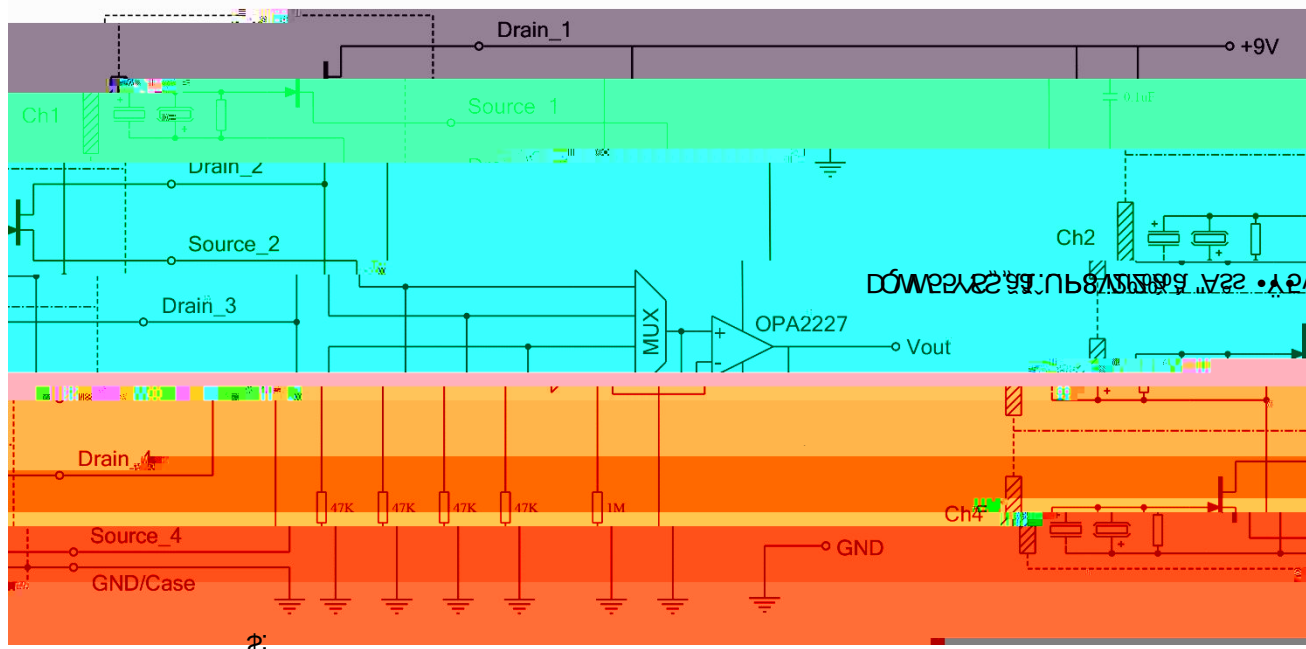
Housing



Pin Assignment



Test circuit



Parameters

Voltage responsivity(rms) @500 K 10 Hz 25 without filter/window	min	200V/W
Noise density (rms) @10 Hz BW 1 Hz 25	max	130nV/ $\sqrt{\text{Hz}}$
Detectivity @500 K 10 Hz BW 1 Hz 25 without filter/window	typ	4E+08 cm $\sqrt{\text{Hz/W}}$

Aperture size	nom	□ 8.5mm
/	nom	□ 2mm
Element size/type		lithium-tantalate
Thermal time constant	typ	150ms



Offset voltage Source GND @25	-	0.4 1.5V
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/ Operating/Storage temperature	nom	-25 +85
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Filter sizes	nom	□ 3mm
Aperture window/Sizes	nom	Sapphire 12.7mm
1 IR filter Ch1	nom	CWL 5.3 μ m HPB 180nm Si
2 IR filter Ch2	nom	CWL 4.48 μ m HPB 450nm Si
3 IR filter Ch3	nom	CWL 3.85 μ m HPB 180nm Si
4 IR filter Ch4	nom	CWL 2.7 μ m HPB 180nm Si
FOV	min	65 °

Note: Due to technological progress and process improvement, the above parameters are subject to change without prior notice.



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