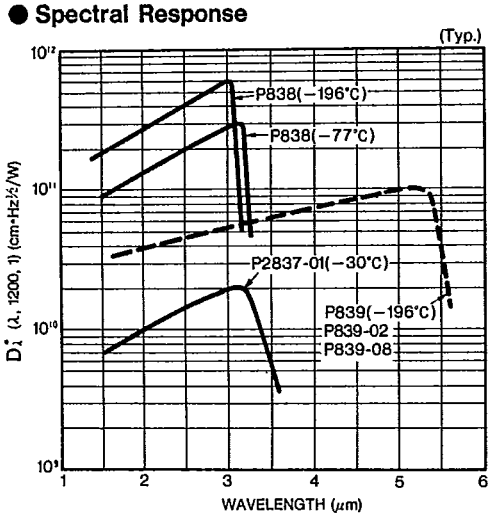
InAs, InSb Detectors

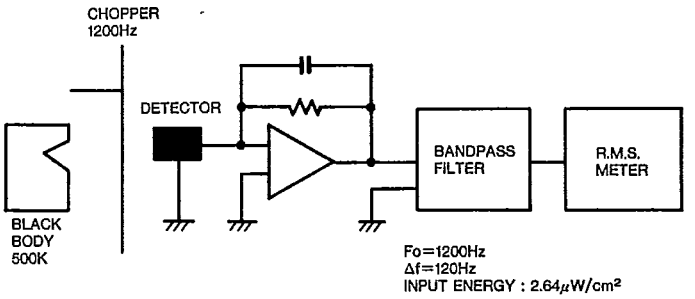
Type No.	Out-line No. (P.28/29)	Package Ⓐ	Effective Sensitive Area (mm)	Characteristics (FOV=60°) Measure-ment Temp. (°C)	Peak Respon-sivity Wave-length λp (μm)	IR Cutoff Wave-length λc (μm)	D* (500, 1200, 1) (cmHz$^{1/2}$/W) Min.	D* (500, 1200, 1) (cmHz$^{1/2}$/W) Typ.	D* (λp, 1200, 1) (cmHz$^{1/2}$/W) Min.	D* (λp, 1200, 1) (cmHz$^{1/2}$/W) Typ.	Radiant Respon-sivity at λp (A/W)	Shut Resist-ance Typ. V_R=10mV (MΩ)	Rise Time t_r 0~63% Max. (μs)
2-Stage Thermoelelctrically-Cooled InAs													
P2837-01	⑧	6 pin TO-8	φ1	-30	3.2	3.6	5×10^8	1×10^9	1×10^{10}	2×10^{10}	1	4×10^2	1
Dewar Type InAs													
P838	⑰	Glass dewar	φ1	−77 (196K)	3.1	3.2	3×10^9	5×10^9	2×10^{11}	3×10^{11}	1	1×10^4	1
				−77 (196K)	3.0	3.1	6×10^9	1×10^{10}	4×10^{11}	6×10^{11}	1	1×10^6	1
Dewar Type InSb													
P839	⑰	Glass dewar	φ0.6	−196 (77K)	5.3	5.5	1×10^{10}	2×10^{10}	7×10^{10}	1×10^{11}	2	1×10^7	1
P839-02	⑱												
P839-08	⑰		φ2				1×10^{10}	2×10^{10}	7×10^{10}	1×10^{11}	2	2×10^6	1

Ⓐ Sapphire window
*Avoid storing the detector at high temperatures. Storage temperature range is 0~+60°C.

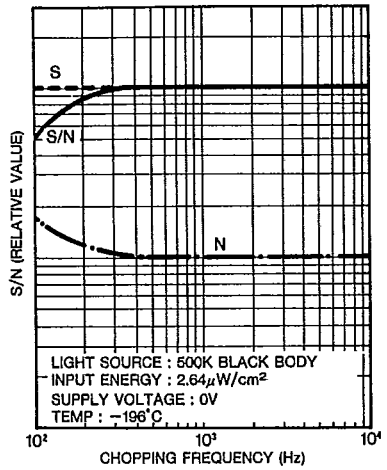
● Spectral Response



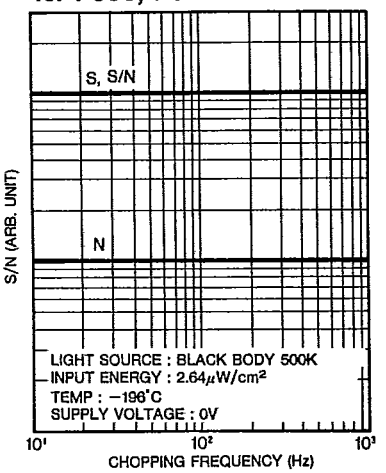
● Measurement Block Diagram



● S/N Ratio vs. Chopping Frequency for P838



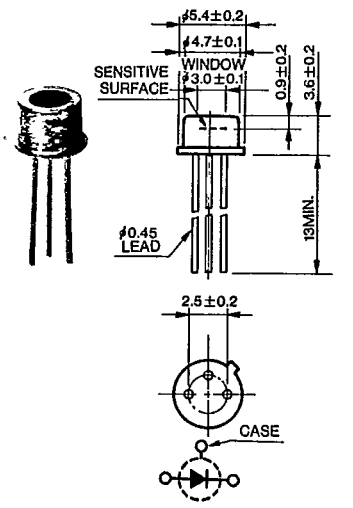
● S/N Ratio vs. Chopping Frequency for P839, P839-02 and P839-08



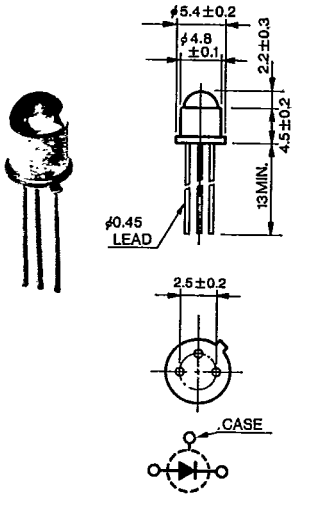
Dimensional Outlines

T-90-20

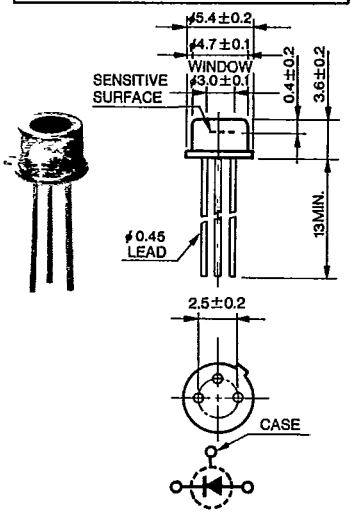
❶ B1720-04,B2297-02, etc.



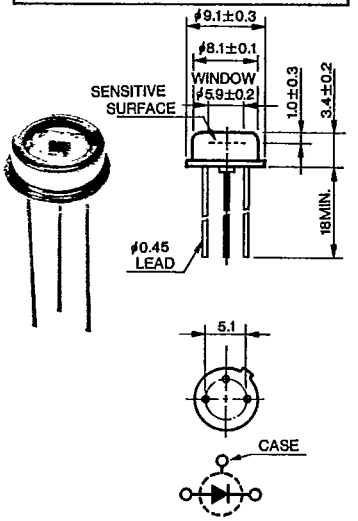
❷ B1720-05



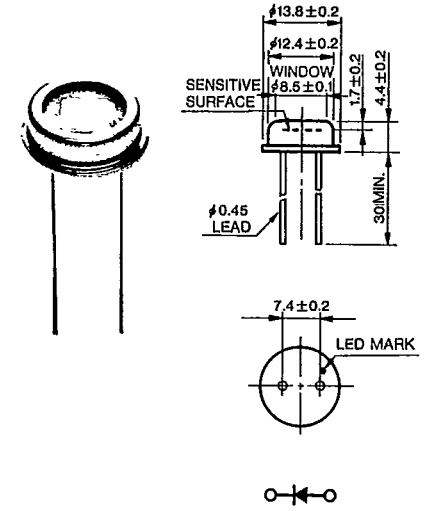
❸ B2834, B2834-01



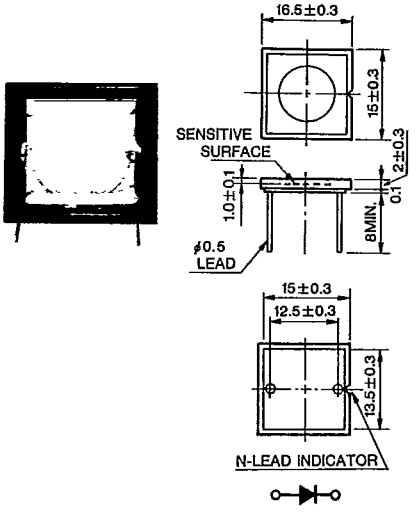
❹ B2144, B1918, etc.



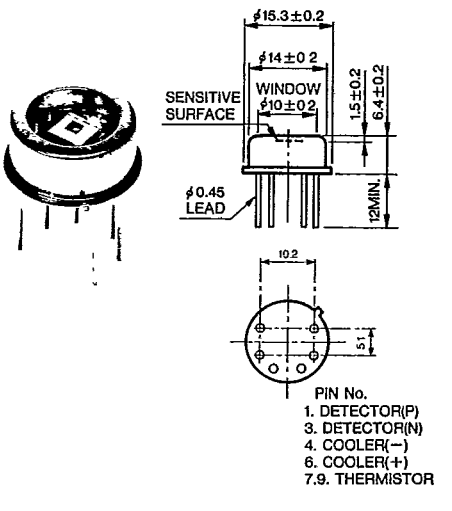
❺ B1919, B1919-01



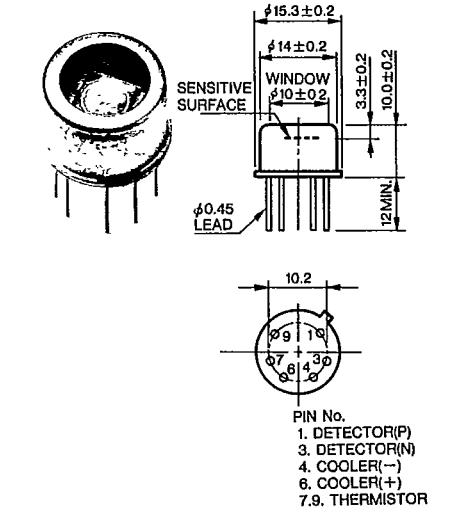
❻ B1920-01



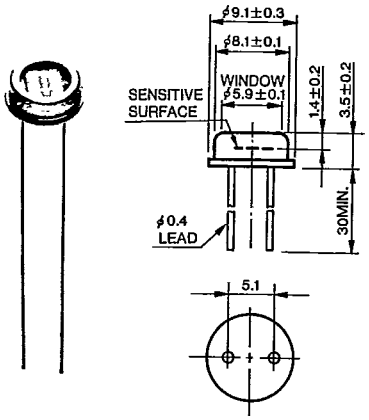
❼ B2538-01, etc. (1-Stage TE)



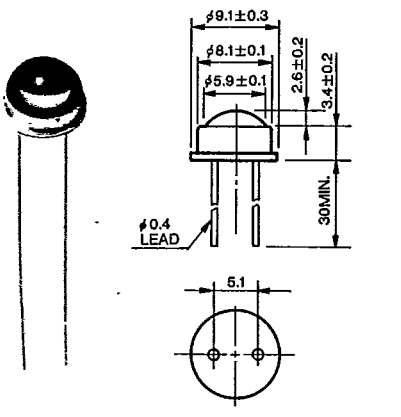
❽ B2614-01, etc.(2-Stage TE)



❾ P394A, P394R, P791

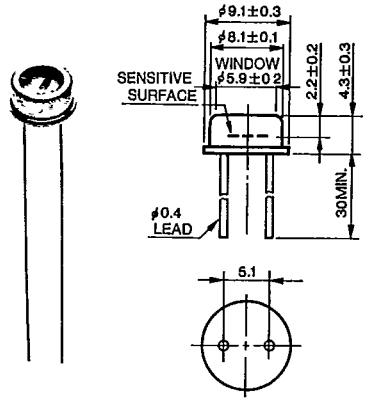


❿ P3226

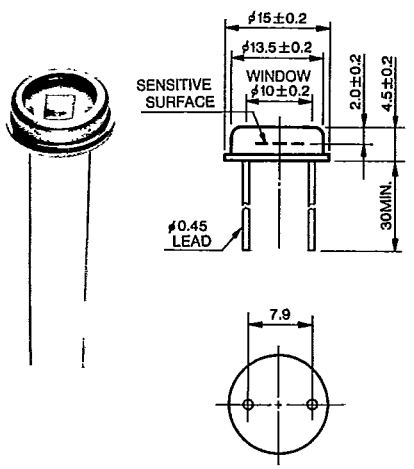


Unit: mm

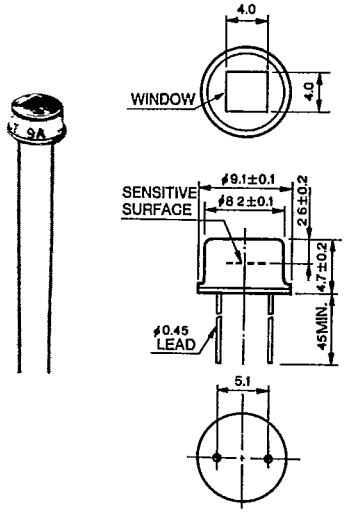
⓫ P394



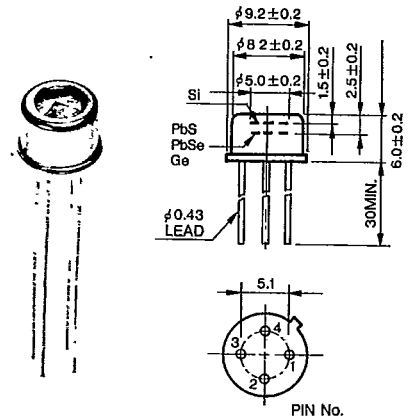
⓬ P397



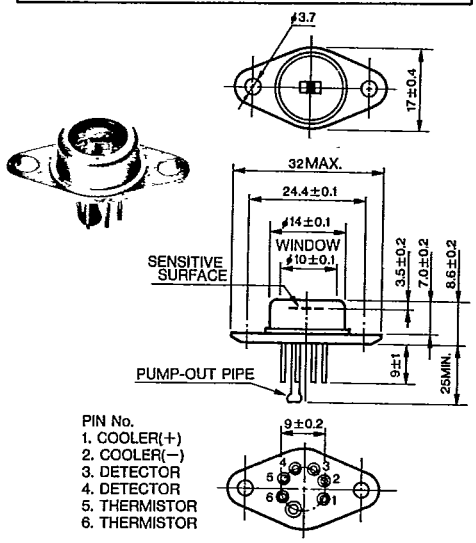
⓭ P3207



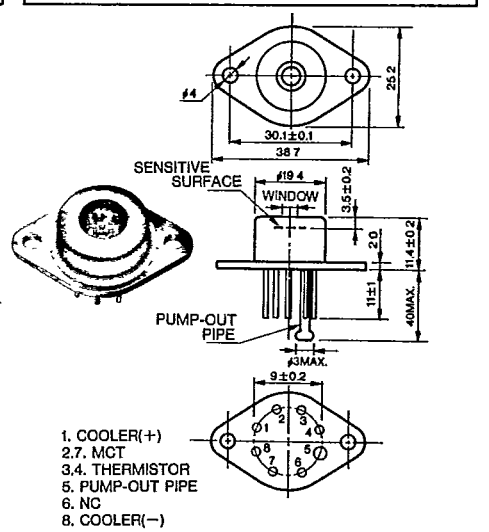
⓮ K1713-01,K1713-02,K1713-03



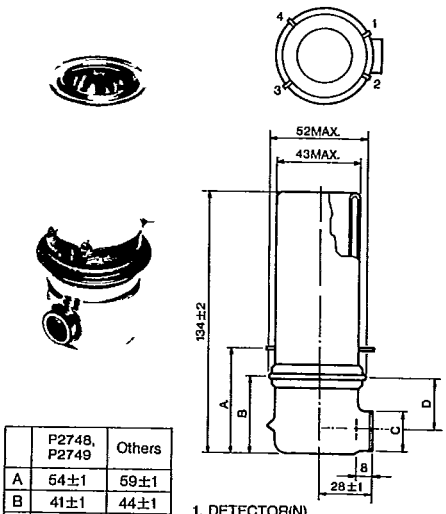
⓯ P1026,P903 (1-Stage TE)



⓰ P2750 (3-Stage TE)

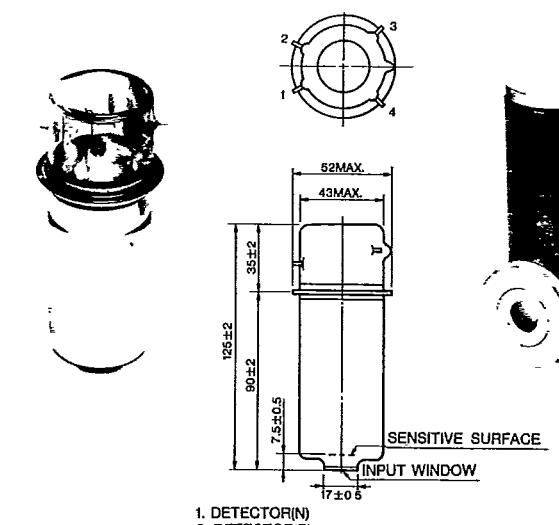


⓱ P2748,B2123,P819, etc.



	P2748, P2749	Others
A	54±1	59±1
B	41±1	44±1
C	19.5±0.5	17±0.5
D	25±0.5	28±0.5

⓲ P839-02



⓳ P3257