TABLE 1. Response properties of cells with maximal responses, $r_{max} \geqslant 18$ pA. All experiments in bicarbonate Locke solution. S_F^D, flash sensitivity to transverse illumination; t_{peak}, the time from the flash to response peak; t_i, the integration time of the flash response; form, the model best fitting the flash response (I = independence; P = Poisson; number in parentheses = number of stages); a, peak amplitude of single-photon response measured by the ratio of variance to mean of flash response (v), or by the fit of amplitude histogram to a Poisson distribution (h); A_c, the collecting area for transverse illumination obtained from S_F^D/a, where a was calculated from the variance to mean ratio (v), from the fit of the response histogram (h), or by fitting eqn. (6) to the 'frequency of seeing' results (s); k_f, obtained by fitting eqn. (2) to response–intensity relation; T, temperature

Cell	Figure (symbol)	r_{max} (pA)	S_F^D (pA photons^{-1} μm^2)	t_{peak} (ms)	t_i (ms)	Form (stages)	a (pA)	A_c (μm^2)	k_f (μm^2)	T (°C)
1	2 (▼)	22	0·51	238	358	I (6)	0·43 (v)	1·16 (v)	0·0296	35
2	—	21	0·66	260	341	P (6)	0·93 (v)	0·71 (v)	0·0478	35
3	2 (●)	25	1·28	216	288	I (6)	0·69 (v)	1·85 (v)	0·0613	36
	—	—	—	—	—	—	0·88 (h)	1·50 (h)	—	—
4	—	18	0·84	200	—	—	0·97 (h)	0·86 (h)	—	38
5	2 (△), 3, 10, 13*A*, 15	22	1·26	200	269	P (6)	0·95 (v)	1·34 (v)	0·0365	36
		—	—	—	—	—	0·97 (h)	1·31 (h)	—	—
6	11, 12	18	1·54	150	—	—	—	—	0·0262	36
7	1, 2 (□)	34	1·17	150	—	—	—	—	0·0217	36
8	—	20	0·46	250	280	—	0·29 (h)	1·57 (h)	—	36
9	—	25	0·55	160	331	—	0·46 (h)	1·19 (h)	—	37
10	—	25	0·70	180	374	—	0·48 (h)	1·47 (h)	—	37
11	2 (○)	27	1·02	150	—	—	—	—	0·0262	37
12	8 (□)	24	0·93	190	330	I (6)	0·75 (v)	1·39 (s)	—	36
	—	—	—	—	—	—	0·76 (h)	—	—	—
13	8 (○)	20	0·58	150	228	P (6)	0·52 (h)	1·33 (s)	—	36
14	8 (△)	23	0·40	150	176	P (6)	0·29 (h)	1·20 (s)	—	35
15	8 (▽)	24	0·68	188	227	P (6)	0·63 (h)	1·14 (s)	—	36