

INFRARED EMITTING DIODE



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(Ta=25°C)

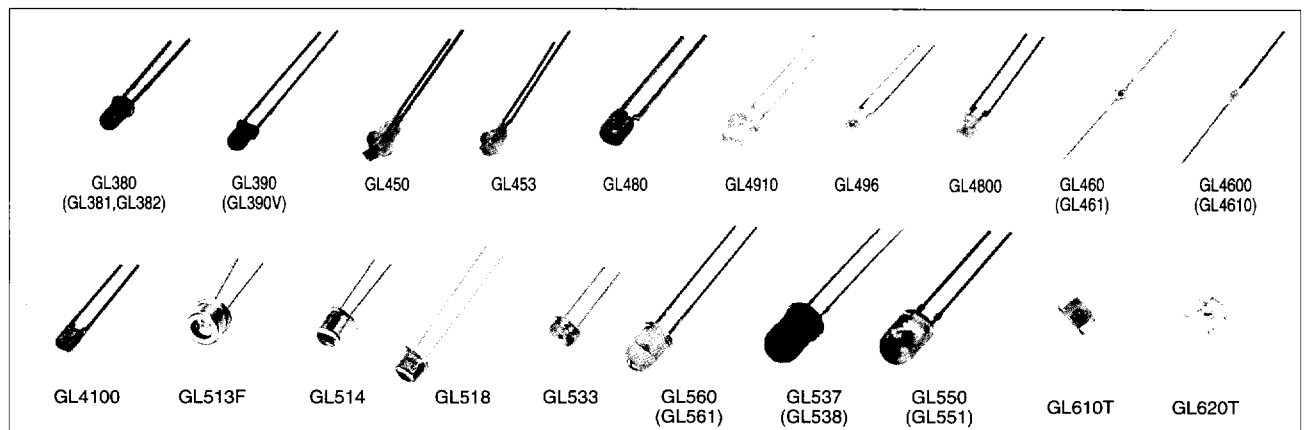
Model No.	Package, features	Absolute maximum ratings				Φ_e (mW)			V_f (V)			$\Delta\theta$ (°) TYP.	λ_p (nm) TYP.
		I_F (mA)	V_R (V)	P (mW)	T_{opr} (°C)	MIN.	TYP.	I_F (mA)	TYP.	MAX.			
GL380	ø3 resin	60	6	150	-25 to +85	4.5**	11**	50	1.3	1.5	50	±13	950
GL381	ø3 resin	60	6	150	-25 to +85	8.5**	20**	50	1.3	1.5	50	±13	950
GL382	ø3 resin, For high speed signal transmission:12MHz	60	4	—	-25 to +85	6	18	50	1.5	1.7	50	±17	880
GL390	Arch type	60	6	150	-25 to +85	7**	13**	50	1.3	1.5	50	±18	950
GL390V	Arch type	60	6	150	-25 to +85	9**	16**	50	1.3	1.5	50	±18	950
GL450*1	Resin with bidirectional lens	50	6	75	-25 to +85	0.7	1.0	20	1.2	1.4	20	(Bidirectional)	950
GL453	Resin with bidirectional lens	50	6	75	-25 to +85	0.85	1.3	20	1.2	1.5	20	(Bidirectional)	950
GL480*3	Epoxy resin	50	6	75	-25 to +85	0.7	—	20	1.2	1.4	20	±13	950
GL480Q	Epoxy resin	50	6	75	-25 to +85	0.7	1.6	20	1.2	1.4	20	±30	950
GL460	Double-end type	50	6	150	-25 to +85	1.0	—	20	1.2	1.5	20	±40	950
GL461	Double-end type	50	6	150	-25 to +85	1.8	—	20	1.2	1.5	20	±40	950
GL460Q	Double-end type	50	6	150	-25 to +85	1.0	—	20	1.2	1.5	20	±13	950
GL461Q	Double-end type	50	6	150	-25 to +85	1.8	—	20	1.2	1.5	20	±13	950
GL4100	Side-view flat type	50	6	75	-25 to +85	1.0	—	20	1.2	1.4	20	±90	950
GL4910	Side-view type, current constriction type	50	4	—	-25 to +60	4.2	9	$I_{FM}=300mA$	1.55	1.7	50	±32	850
GL496	Side-view type, High speed signal transmission: 40 MHz	50	4	87.5	-25 to +85	3.0**	12.0**	50	1.55	1.75	50	±22	880
GL513F	TO-18	150	6	250	-40 to +125	1.44	2.88	100	1.35	1.6	100	±50	950
GL514	TO-18	150	6	250	-40 to +125	3.31	5.35	100	1.35	1.6	100	±7	950
GL518	TO-18	80	6	120	-25 to +125	2.0	3.0	50	1.3	1.6	50	±10	950
GL560	ø5 resin	100	6	150	-25 to +85	5**	14**	50	1.25	1.37	50	±21	940
GL561	ø5 resin	100	6	150	-25 to +85	12**	25**	50	1.25	1.37	50	±13	940
GL533	TO-46	80	6	120	-25 to +100	8	13	50	1.3	1.6	50	±65	940
GL537	ø5 resin	100	6	150	-25 to +85	6**	13**	50	1.3	1.5	50	±25	950
GL538	ø5 resin	100	6	150	-25 to +85	15**	30**	50	1.3	1.5	50	±13	950
GL550	ø5 resin, High speed signal transmission: 12 MHz	100	4	190	-20 to +85	10	22 (MAX.)	50	1.5	1.75	50	±22	880
GL551	ø5 resin, High speed signal transmission: 12 MHz	100	4	190	-20 to +85	10	22 (MAX.)	50	1.5	1.75	50	±10	880
GL610T	Leadless chip type	50	6	150	-25 to +85	0.7	2	20	1.3	1.5	50	±60	950
GL620T	Chip type	50	6	75	-25 to +85	0.7	2	20	1.3	1.5	50	±40	950

*1 GL451 is also available as longer lead version of GL450.

*2 $I_{FM} = 0.3 A$

*3 GL480Q, GL480QT1 and GL483Q (longer lead type) are also available as higher reliability version of GL480.

*4 Radiation intensity mW/sr



Notice

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.