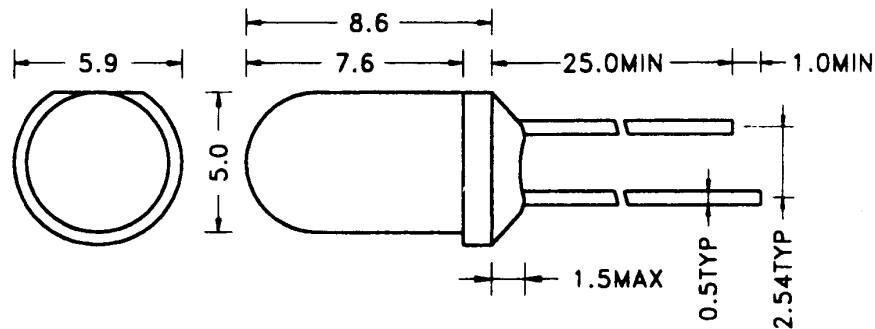


Radiation	Type	Technology	Case
Infrared	IR-970-560WD	GaAs/GaAs	5 mm plastic lens, white diffused



Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	100	mA
Peak forward current	Duty 1/10, $f \leq 10$ kHz	I_{FP}	200	mA
Power dissipation		P_D	140	mW
Reverse voltage	$I_R = 10 \mu\text{A}$	V_R	5	V
Reverse current	$U_R = 5$ V	I_R	10	μA
Operating temperature		T_{opr}	-40 to +80	$^\circ\text{C}$
Storage temperature		T_{stg}	-40 to +85	$^\circ\text{C}$
Soldering temperature	3 sec max, 2 mm from body	T_{sol}	260	$^\circ\text{C}$

Electrical and Optical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Test conditions	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F = 20$ mA	V_F		1.2	1.4	V
Radiant power	$I_F = 20$ mA	Φ_e		3.9		mW
Radiant intensity	$I_F = 20$ mA	I_e		4.6		mW/sr
Peak wavelength	$I_F = 20$ mA	λ_p		970		nm
Spectral halfwidth	$I_F = 20$ mA	$\Delta\lambda$		25		nm
Viewing angle	$I_F = 20$ mA	φ		60		deg.
Switching time	$I_F = 20$ mA	t_r, t_f		500/500		ns