

ROITHNER LASERTECHNIK

A-1040 WIEN, FLEISCHMANNGASSE 9

TEL: +43 -1- 586 52 43 FAX: +43 -1- 586 41 43

e-mail: rlt@mcb.at <http://www.roithner.mcb.at>

OPE5594S TECHNICAL DATA

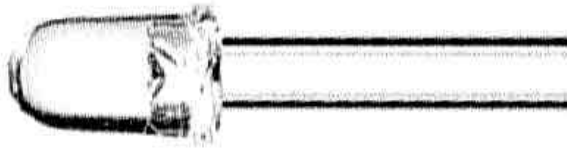
HIGH POWER IR-LED

Technology: **GaAlAs**

Peak Wavelength: **940 nm typ.**

Radiant Intensity: **120 mW/sr**

Package: **5 mm clear plastic**



Absolute Maximum Ratings (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P _D	150	mW
Forward current	I _F	100	mA
Pulse forward current ^{*)}	I _{FP}	1.0	A
Reverse voltage	V _R	5	V
Soldering Temperature ^{**)}	T _{SOL}	260	°C for 5 s
Operating Temperature	T _{OP}	-25 .. +85	°C
Storage Temperature	T _{STG}	-30 .. +100	°C

^{*)} Duty ratio = 1/100, pulse width = 100µs

^{**)} Lead soldering temperature (2 mm from case for 5 sec)

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Radiant intensity	L _I (940 nm)	I _F = 100 mA		120		mW/sr
Forward Voltage	V _F	I _F = 100 mA		1.4	1.7	V
Reverse Current	I _R	V _R = 5 V			10	µA
Capacitance	C _t	f = 1 MHz		20		pF
Peak Wavelength	λ _P	I _F = 50 mA		940		nm
Spectrum Half Width	Δλ	I _F = 50 mA		45		nm
Half angle	θ ½	I _F = 100 mA		±10		°