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Array LED 2 mm LED, Diffused

LR Z18 x, LY Z181, LG Z18 x

Besondere Merkmale

- eingefärbtes, diffuses Gehäuse
- als optischer Indikator einsetzbar
- als Mehrfachzeile verfügbar
- Störimpulsfest nach DIN 40839

Features

- colored, diffused package
- for use as optical indicator
- available as multiple array (LED)
- load dump resistant acc. to DIN 40839



VEX06726

Typ Type	Anzahl der Lichtpunkte Number of Dots	Emissionsfarbe Color of Emission	Gehäusefarbe Color of Package	Lichtstärke Luminous Intensity $I_F = 10 \text{ mA}$ $I_v (\text{mcd})$	Bestellnummer Ordering Code
LR Z181-CO	1	red	red diffused	≥ 0.25	Q62703-Q1495
LR Z182-CO	2	red	red diffused	≥ 0.25	Q62703-Q1496
LR Z183-CO	3	red	red diffused	≥ 0.25	Q62703-Q1497
LR Z184-CO	4	red	red diffused	≥ 0.25	Q62703-Q1498
LR Z185-CO	5	red	red diffused	≥ 0.25	Q62703-Q1499
LR Z186-CO	6	red	red diffused	≥ 0.25	Q62703-Q1500
LR Z187-CO	7	red	red diffused	≥ 0.25	Q62703-Q1501
LR Z188-CO	8	red	red diffused	≥ 0.25	Q62703-Q1502
LR Z189-CO	9	red	red diffused	≥ 0.25	Q62703-Q1503
LR Z180-CO	10	red	red diffused	≥ 0.25	Q62703-Q1504
LY Z181-CO	1	yellow	yellow diffused	≥ 0.25	Q62703-Q1505
LG Z181-CO	1	green	green diffused	≥ 0.25	Q62703-Q1506
LG Z182-CO	2	green	green diffused	≥ 0.25	Q62703-Q1507
LG Z183-CO	3	green	green diffused	≥ 0.25	Q62703-Q1508
LG Z184-CO	4	green	green diffused	≥ 0.25	Q62703-Q1509
LG Z185-CO	5	green	green diffused	≥ 0.25	Q62703-Q1510
LG Z186-CO	6	green	green diffused	≥ 0.25	Q62703-Q1511
LG Z188-CO	8	green	green diffused	≥ 0.25	Q62703-Q1513
LG Z180-CO	10	green	green diffused	≥ 0.25	Q62703-Q1515

Streuung der Lichtstärke in einer Verpackungseinheit $I_{V \max} / I_{V \min} \leq 2.0$.
Luminous intensity ratio in one packaging unit $I_{V \max} / I_{V \min} \leq 2.0$.

Grenzwerte**Maximum Ratings**

Bezeichnung Parameter	Symbol Symbol	Werte Values	Einheit Unit
Betriebstemperatur Operating temperature range	T_{op}	– 40 ... + 80	°C
Lagertemperatur Storage temperature range	T_{stg}	– 40 ... + 80	°C
Sperrsichttemperatur Junction temperature	T_j	+ 100	°C
Durchlaßstrom Forward current	I_F	30	mA
Stoßstrom Surge current $t \leq 10 \mu\text{s}, D = 0.005$	I_{FM}	0.5	A
Sperrspannung Reverse voltage	V_R	5	V
Verlustleistung Power dissipation $T_A \leq 25 \text{ }^\circ\text{C}$	P_{tot}	80	mW
Wärmewiderstand Thermal resistance Sperrsicht / Luft Junction / air	$R_{th JA}$	750 ¹⁾	K/W

¹⁾ Auf Platine gelötet: Lötfläche $\geq 16 \text{ cm}^2$.¹⁾ Soldered on PC board: pad size $\geq 16 \text{ cm}^2$.

Kennwerte ($T_A = 25^\circ\text{C}$)**Characteristics**

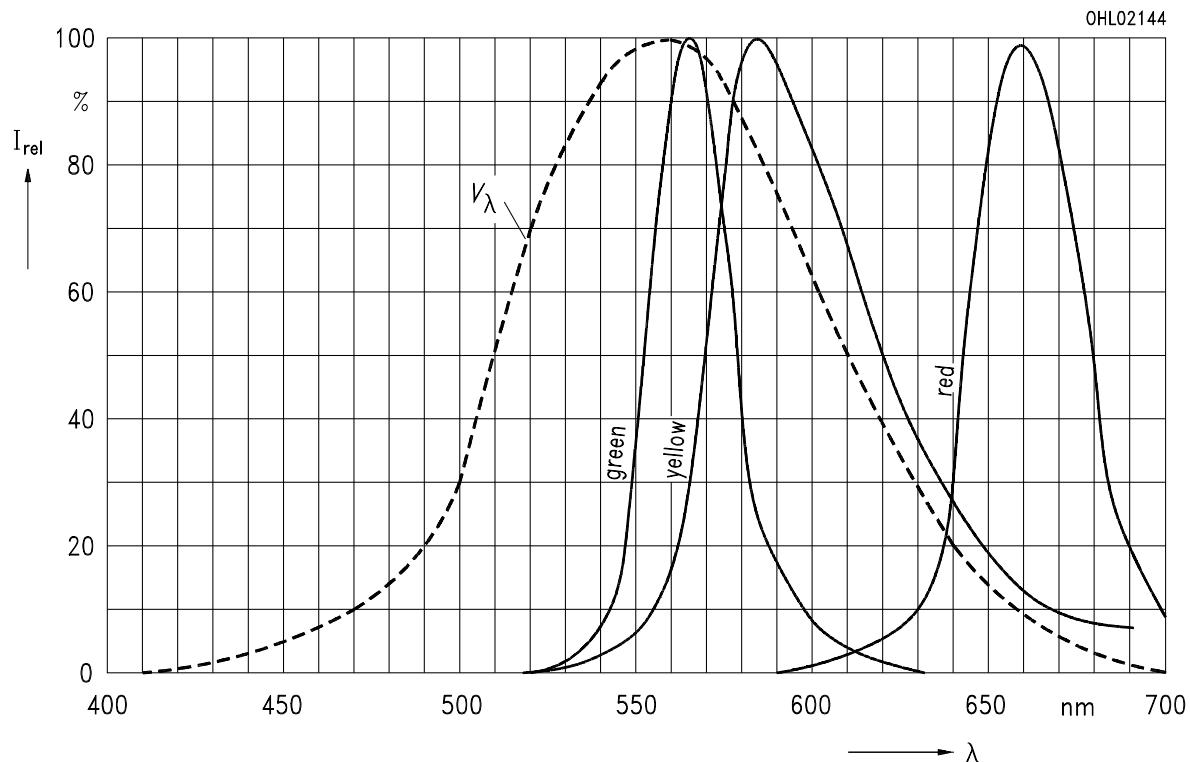
Bezeichnung Parameter	Symbol Symbol	Werte Values			Einheit Unit
		LR	LY	LG	
Wellenlänge des emittierten Lichtes Wavelength at peak emission $I_F = 20 \text{ mA}$	λ_{peak}	660	586	565	nm
Dominantwellenlänge Dominant wavelength $I_F = 20 \text{ mA}$	λ_{dom}	645	590	570	nm
Spektrale Bandbreite bei 50 % $I_{\text{rel max}}$ Spectral bandwidth at 50 % $I_{\text{rel max}}$ $I_F = 20 \text{ mA}$	$\Delta\lambda$	35	45	25	nm
Abstrahlwinkel bei 50 % I_V (Vollwinkel) Viewing angle at 50 % I_V	2ϕ	100	100	100	Grad deg.
Durchlaßspannung Forward voltage $I_F = 10 \text{ mA}$	V_F	1.6 2.0	2.0 2.6	2.0 2.6	V V
Sperrstrom Reverse current $V_R = 5 \text{ V}$	I_R	0.01 10	0.01 10	0.01 10	μA μA
Kapazität Capacitance $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	C_0	25	10	15	pF
Schaltzeiten: Switching times: I_V from 10 % to 90 % I_V from 90 % to 10 % $I_F = 100 \text{ mA}, t_P = 10 \mu\text{s}, R_L = 50 \Omega$	t_r t_f	120 50	300 150	450 200	ns ns

Relative spektrale Emission $I_{\text{rel}} = f(\lambda)$, $T_A = 25^\circ\text{C}$, $I_F = 20 \text{ mA}$

Relative spectral emission

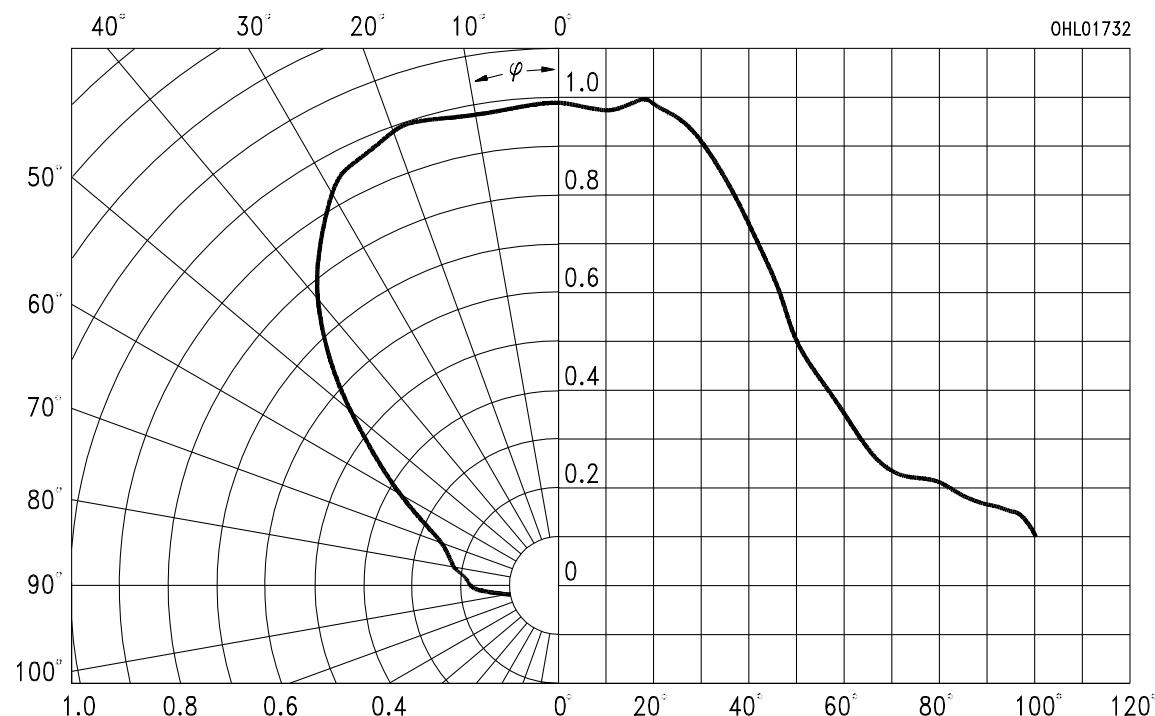
$V(\lambda)$ = spektrale Augenempfindlichkeit

Standard eye response curve



Abstrahlcharakteristik $I_{\text{rel}} = f(\varphi)$

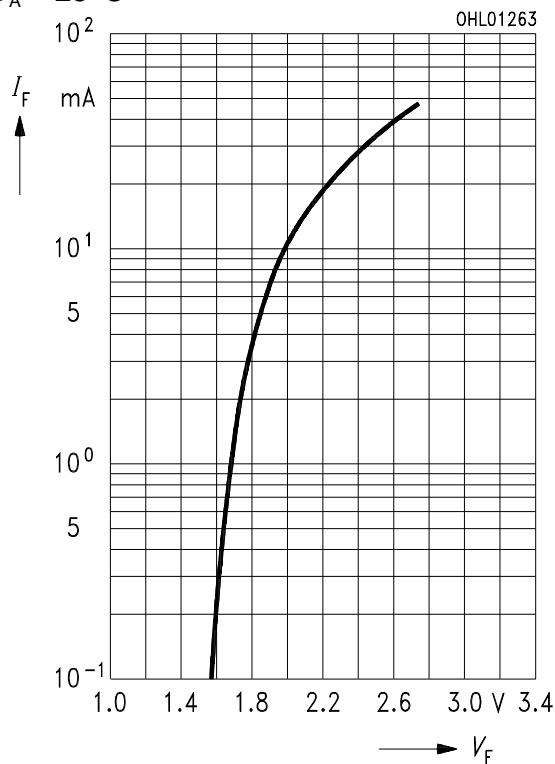
Radiation characteristic



Durchlaßstrom $I_F = f(V_F)$

Forward current

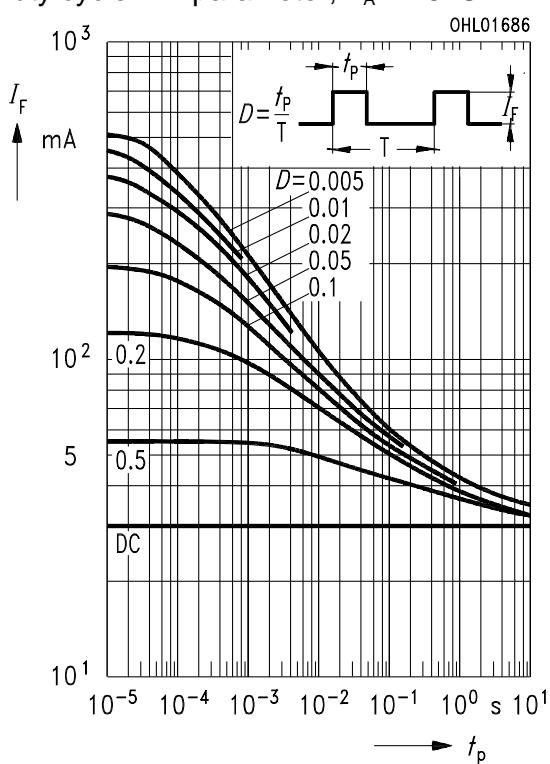
$T_A = 25^\circ\text{C}$



Zulässige Impulsbelastbarkeit $I_F = f(t_p)$

Permissible pulse handling capability

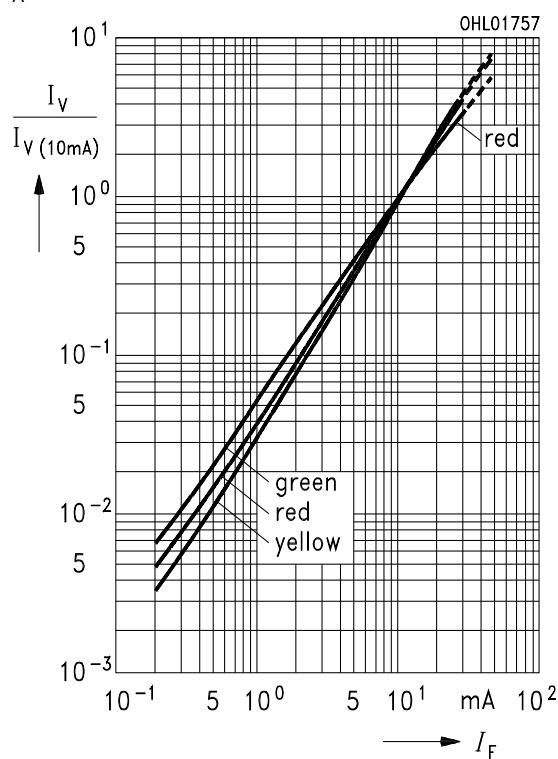
Duty cycle D = parameter, $T_A = 25^\circ\text{C}$



Relative Lichtstärke $I_V/I_{V(10\text{ mA})} = f(I_F)$

Relative luminous intensity

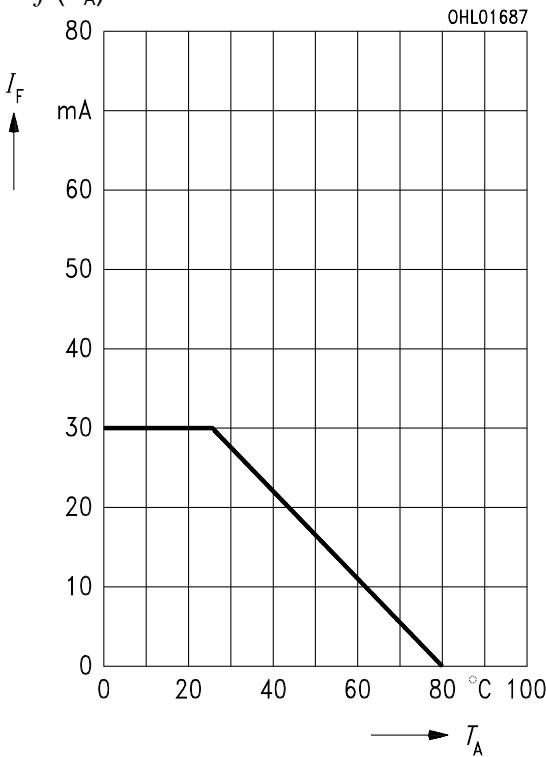
$T_A = 25^\circ\text{C}$



Maximal zulässiger Durchlaßstrom

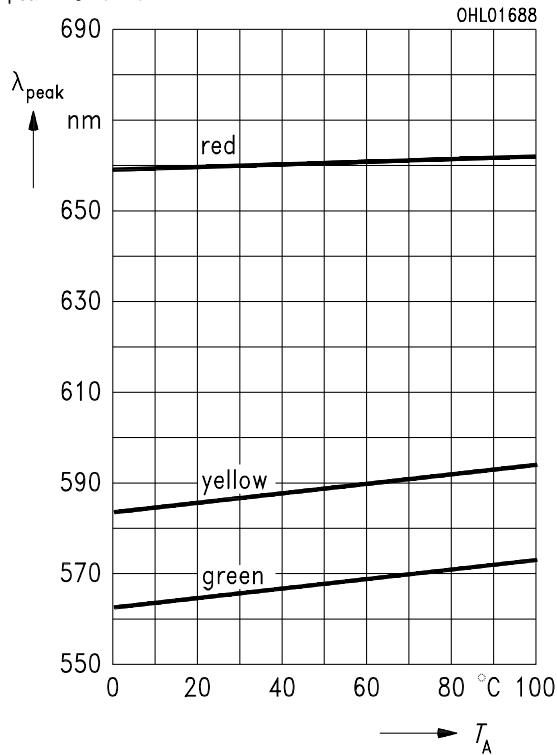
Max. permissible forward current

$I_F = f(T_A)$



Wellenlänge der Strahlung Wavelength at peak emission

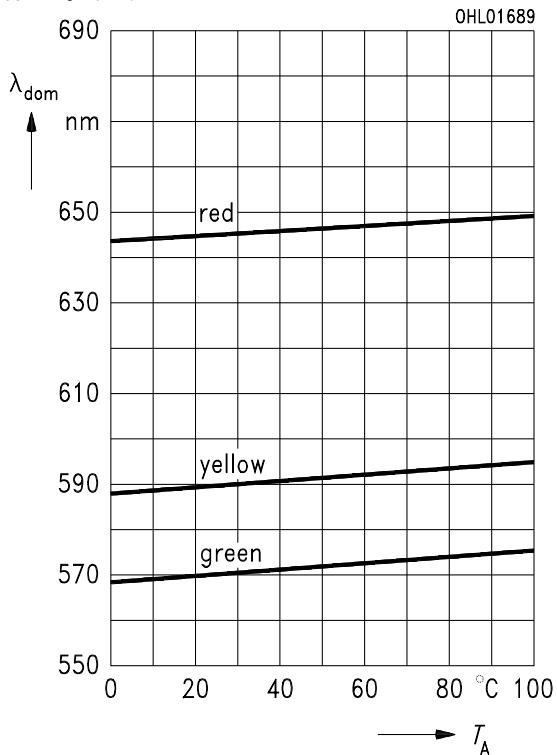
$$\lambda_{\text{peak}} = f(T_A), I_F = 20 \text{ mA}$$



Dominantwellenlänge

Dominant wavelength

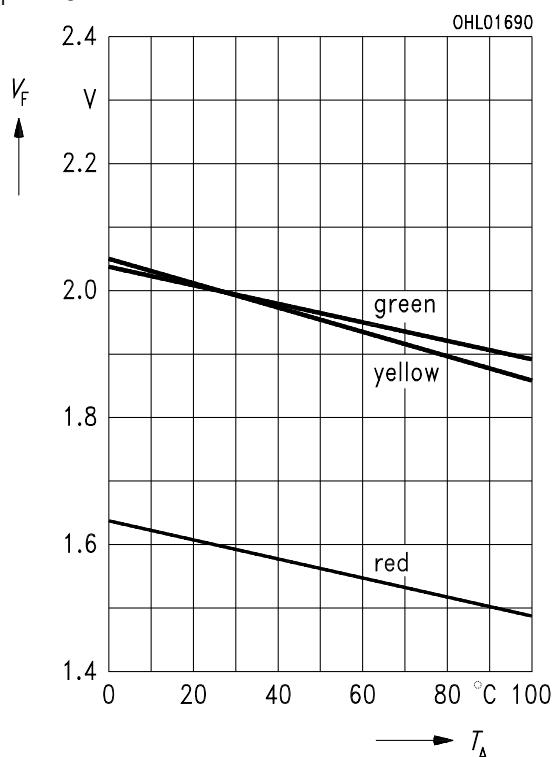
$$\lambda_{\text{dom}} = f(T_A), I_F = 20 \text{ mA}$$



Durchlaßspannung $V_F = f(T_A)$

Forward voltage

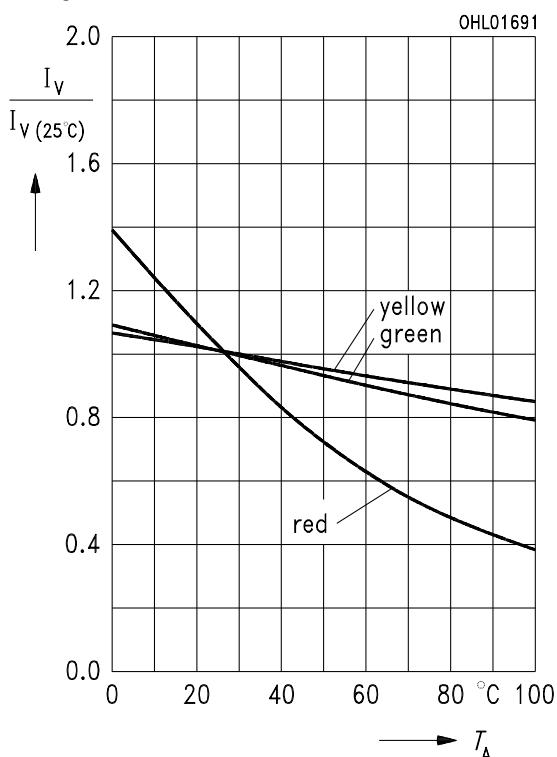
$$I_F = 10 \text{ mA}$$

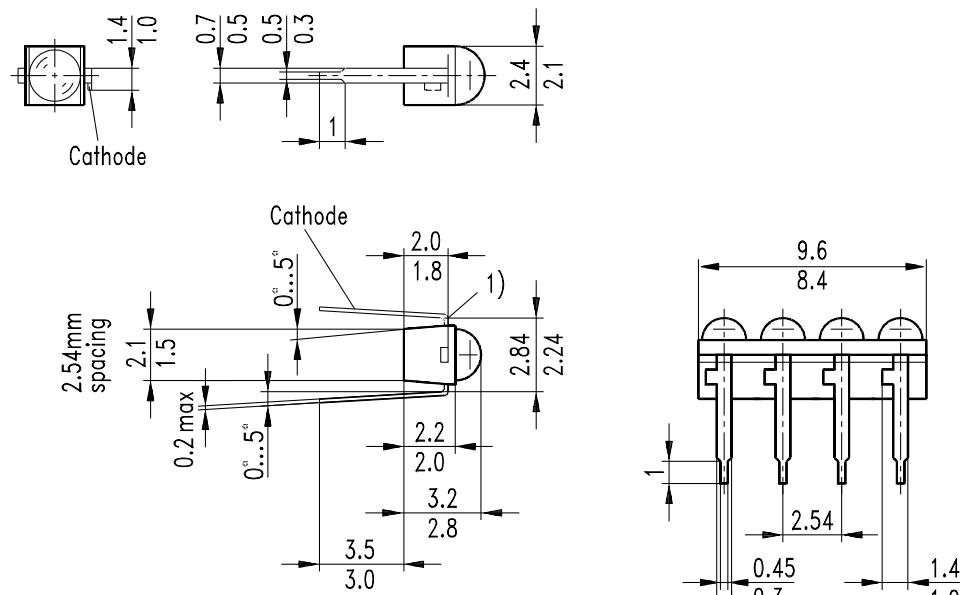


Relative Lichtstärke $I_V/I_{V(25^\circ\text{C})} = f(T_A)$

Relative luminous intensity

$$I_F = 10 \text{ mA}$$



**Maßzeichnung
Package Outlines**(Maße in mm, wenn nicht anders angegeben)
(Dimensions in mm, unless otherwise specified)

GEX06726

Kathodenkennzeichnung: Breiterer Lötzapfen
Cathode mark: Broad solder lead**Zeile mit 4 Dioden (z. B. LR Z184)**
Row with 4 diodes (e. g. LR Z184)