

SIEMENS

5 mm (T1 ³/₄) LED, Diffused

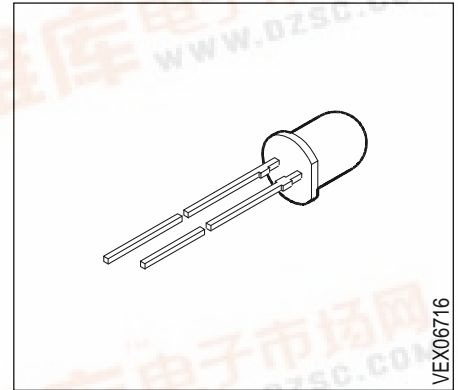
LR 5360, LS 5360, LY 5360
LG 5360

Besondere Merkmale

- eingefärbtes, diffuses Gehäuse
- als optischer Indikator einsetzbar
- Lötspieße ohne Aufsetzebene
- gegurtet lieferbar
- Störimpulsfest nach DIN 40839

Features

- colored, diffused package
- for use as optical indicator
- solder leads without stand-off
- available taped on reel
- load dump resistance acc. to DIN 40839



VEX06716

Typ Type	Emissionsfarbe Color of Emission	Gehäusefarbe Color of Package	Lichtstärke Luminous Intensity $I_F = 10 \text{ mA}$ $I_V \text{ (mcd)}$	Bestellnummer Ordering Code
LR 5360-DG LR 5360-F LR 5360-G LR 5360-FJ	red	red diffused	0.4 ... 3.2 1.0 ... 2.0 1.6 ... 3.2 1.0 ... 8.0	Q62703-Q1376 Q62703-Q1377 Q62703-Q1378 Q62703-Q1379
LS 5360-HL LS 5360-J LS 5360-K LS 5360-L LS 5360-JM	super-red	red diffused	2.5 ... 20.0 4.0 ... 8.0 6.3 ... 12.5 10.0 ... 20.0 4.0 ... 32.0	Q62703-Q1380 Q62703-Q1744 Q62703-Q1381 Q62703-Q1382 Q62703-Q3224
LY 5360-HL LY 5360-J LY 5360-K LY 5360-L LY 5360-JM	yellow	yellow diffused	2.5 ... 20.0 4.0 ... 8.0 6.3 ... 12.5 10.0 ... 20.0 4.0 ... 32.0	Q62703-Q2000 Q62703-Q1386 Q62703-Q2001 Q62703-Q2404 Q62703-Q1387
LG 5360-GK LG 5360-H LG 5360-J LG 5360-K LG 5360-HL	green	green diffused	1.6 ... 12.5 2.5 ... 5.0 4.0 ... 8.0 6.3 ... 12.5 2.5 ... 20.0	Q62703-Q1391 Q62703-Q1390 Q62703-Q1866 Q62703-Q2012 Q62703-Q3188

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
		LR	LS, LY, LG	
Betriebstemperatur Operating temperature range	T_{op}	- 55 ... + 100		°C
Lagertemperatur Storage temperature range	T_{stg}	- 55 ... + 100		°C
Sperrschichttemperatur Junction temperature	T_j	+ 100		°C
Durchlaßstrom Forward current	I_F	45	40	mA
Stoßstrom Surge current $t \leq 10 \mu s, D = 0.005$	I_{FM}	0.5		A
Sperrspannung Reverse voltage	V_R	5		V
Verlustleistung Power dissipation $T_A \leq 25 \text{ °C}$	P_{tot}	100	140	mW
Wärmewiderstand Thermal resistance Sperrschicht / Luft Junction / air	$R_{th JA}$	400		K/W

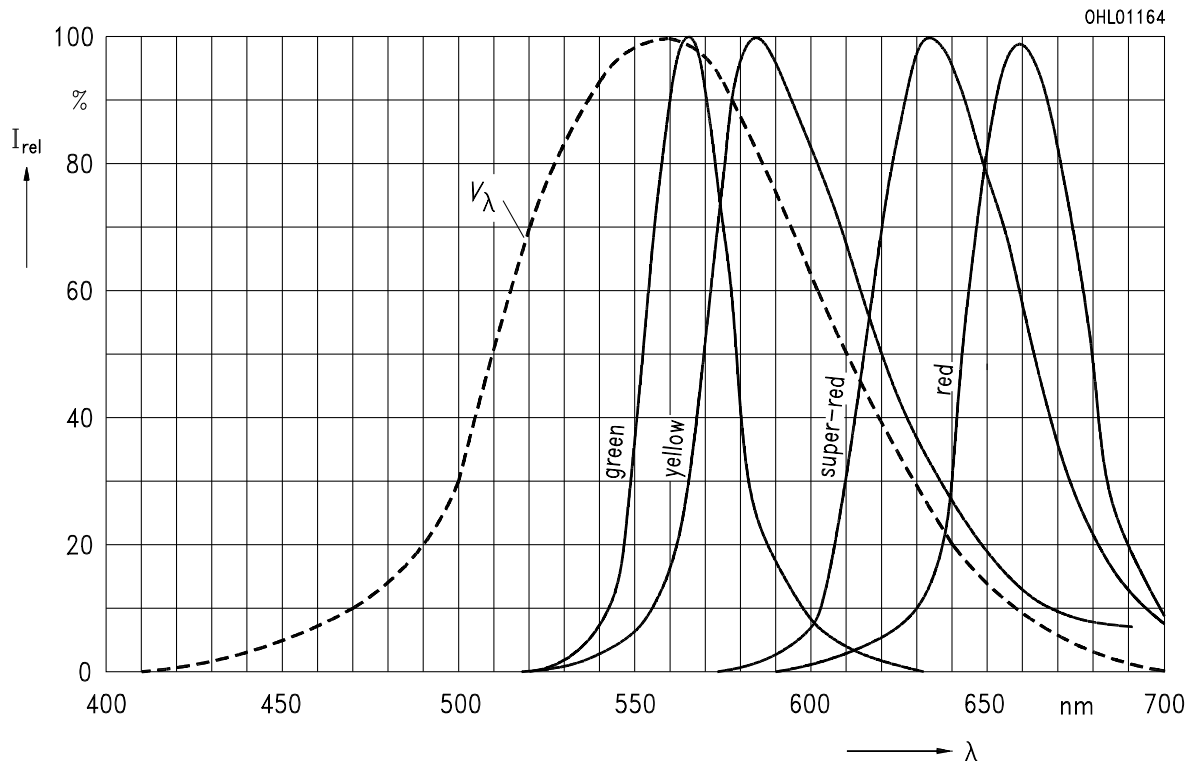
Kennwerte ($T_A = 25\text{ °C}$) Characteristics

Bezeichnung Parameter	Symbol Symbol	Werte Values				Einheit Unit
		LR	LS	LY	LG	
Wellenlänge des emittierten Lichtes Wavelength at peak emission $I_F = 20\text{ mA}$	(typ.) λ_{peak} (typ.)	660	635	586	565	nm
Dominantwellenlänge Dominant wavelength $I_F = 20\text{ mA}$	(typ.) λ_{dom} (typ.)	645	628	590	570	nm
Spektrale Bandbreite bei 50 % $I_{\text{rel max}}$ Spectral bandwidth at 50 % $I_{\text{rel max}}$ $I_F = 20\text{ mA}$	(typ.) $\Delta\lambda$ (typ.)	35	45	45	25	nm
Abstrahlwinkel bei 50 % I_V (Vollwinkel) Viewing angle at 50 % I_V	2ϕ	50	50	50	50	deg.
Durchlaßspannung Forward voltage $I_F = 10\text{ mA}$	(typ.) V_F (max.) V_F	1.6 2.0	2.0 2.6	2.0 2.6	2.0 2.6	V V
Sperrstrom Reverse current $V_R = 5\text{ V}$	(typ.) I_R (max.) I_R	0.01 10	0.01 10	0.01 10	0.01 10	μA μA
Kapazität Capacitance $V_R = 0\text{ V}, f = 1\text{ MHz}$	(typ.) C_0	25	12	10	15	pF
Schaltzeiten: Switching times: I_V from 10 % to 90 % I_V from 90 % to 10 % $I_F = 100\text{ mA}, t_p = 10\text{ }\mu\text{s}, R_L = 50\text{ }\Omega$	(typ.) t_r (typ.) t_f	120 50	300 150	300 150	450 200	ns ns

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

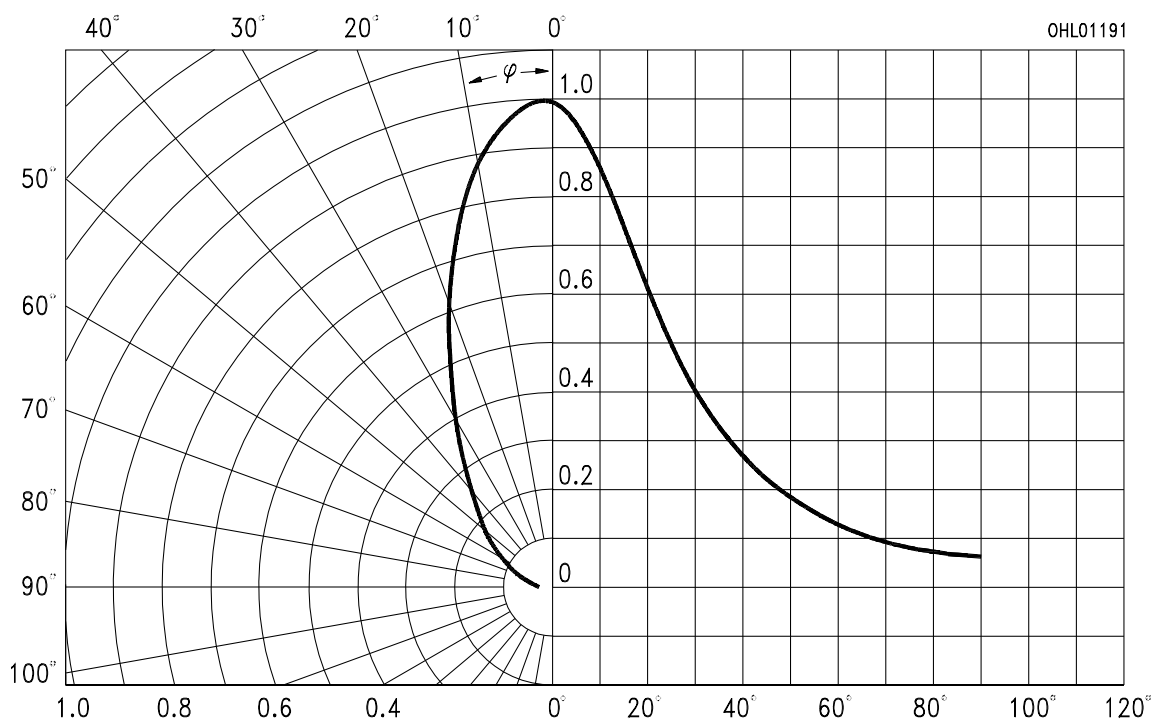
Relative spectral emission

$V(\lambda)$ = spektrale Augenempfindlichkeit
Standard eye response curve



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

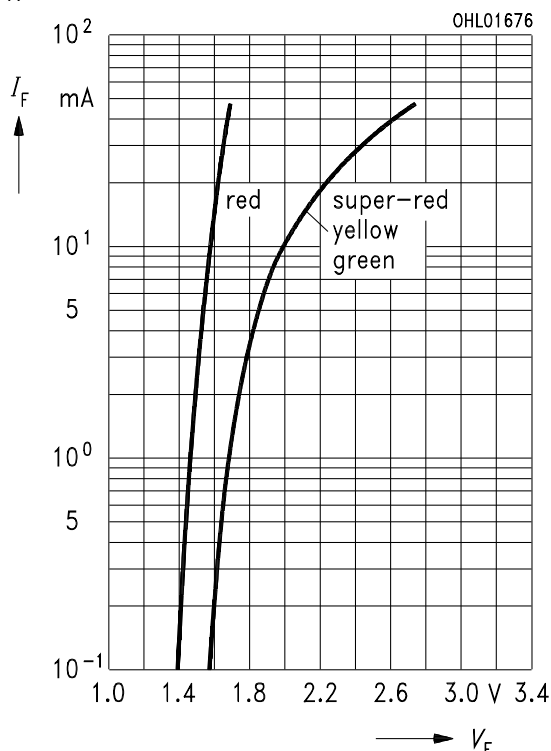
Radiation characteristic



Durchlaßstrom $I_F = f(V_F)$

Forward current

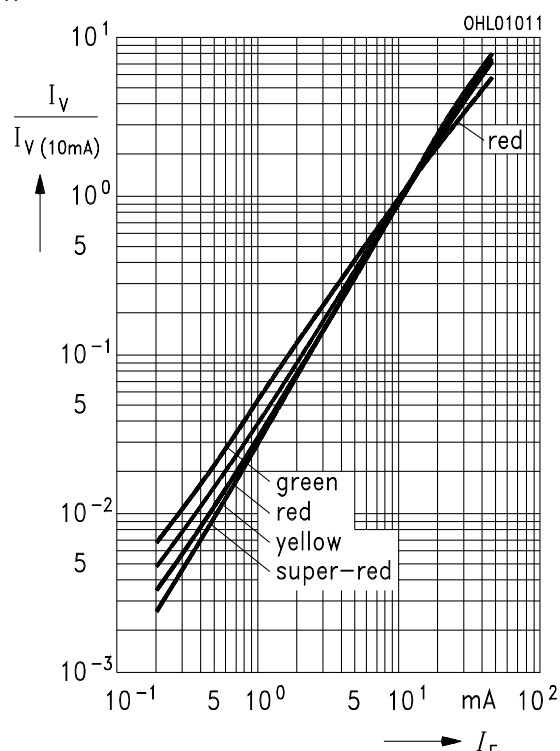
$T_A = 25^\circ\text{C}$



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

Relative luminous intensity

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

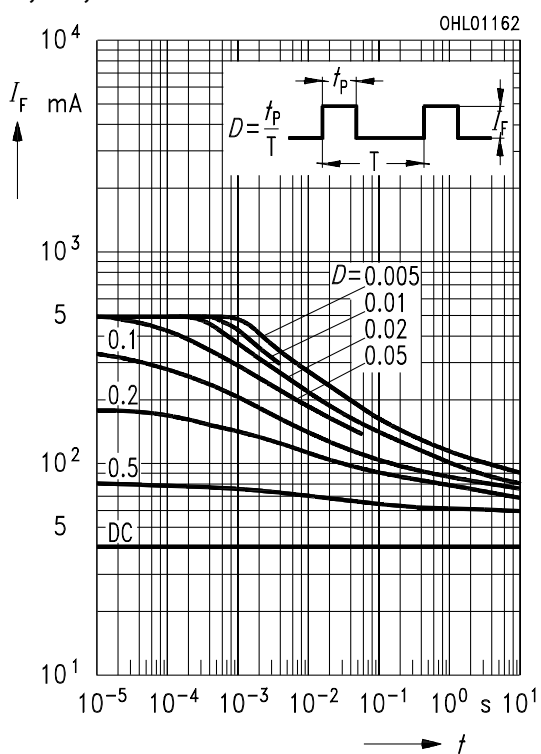


Zulässige Impulsbelastbarkeit $I_F = f(t_P)$

Permissible pulse handling capability

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

LS, LY, LG

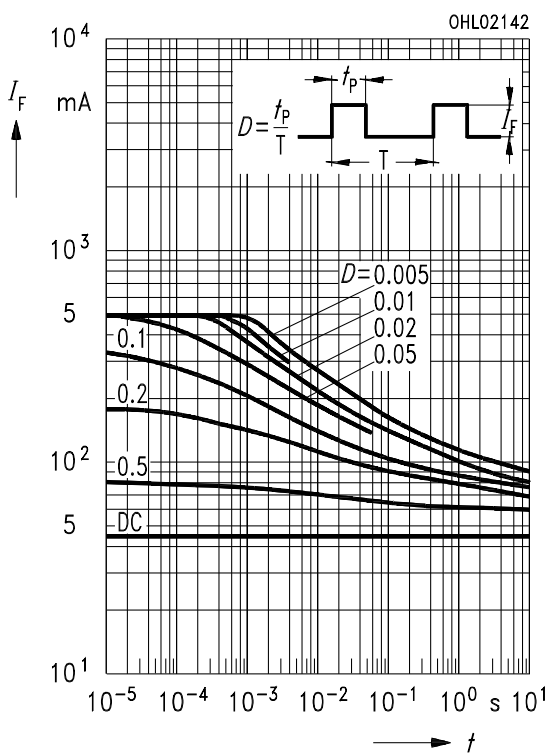


Zulässige Impulsbelastbarkeit $I_F = f(t_P)$

Permissible pulse handling capability

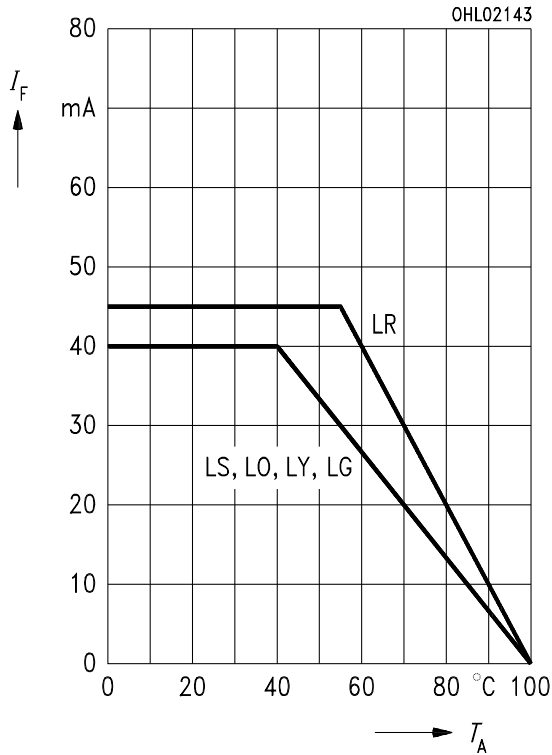
Duty cycle $D =$ parameter, $T_A = 25^\circ\text{C}$

LR



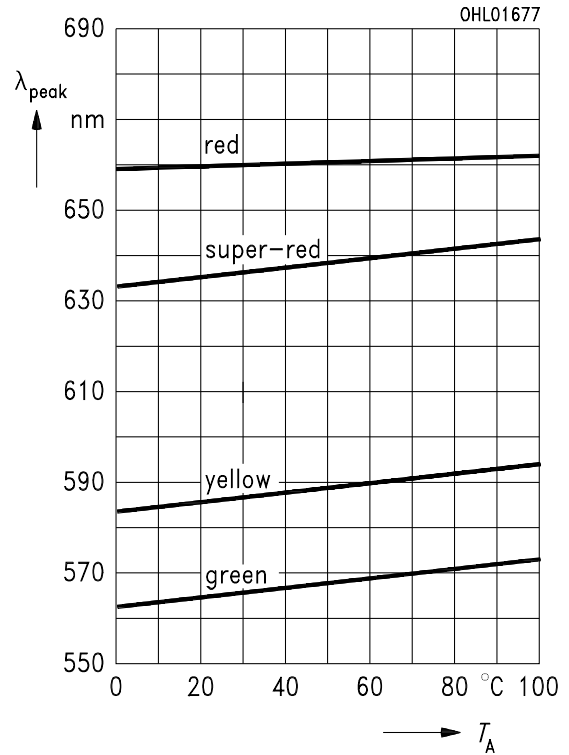
Maximal zulässiger Durchlaßstrom Max. permissible forward current

$$I_F = f(T_A)$$



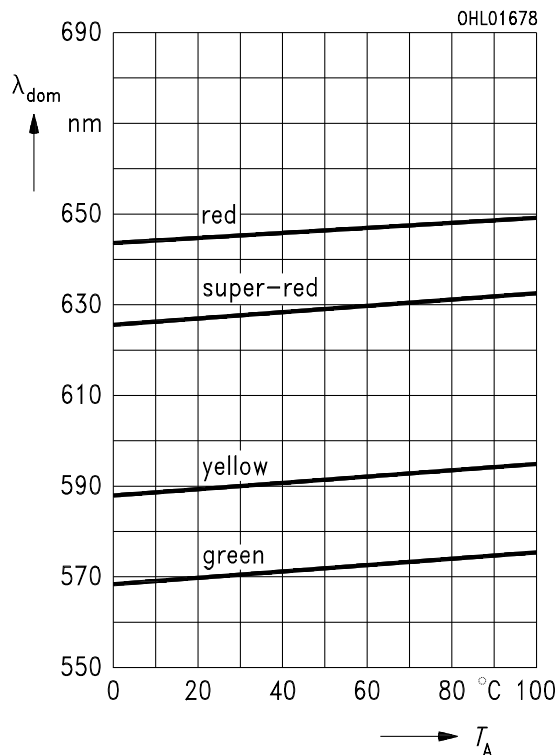
Wellenlänge der Strahlung $\lambda_{\text{peak}} = f(T_A)$ Wavelength at peak emission

$$I_F = 20 \text{ mA}$$



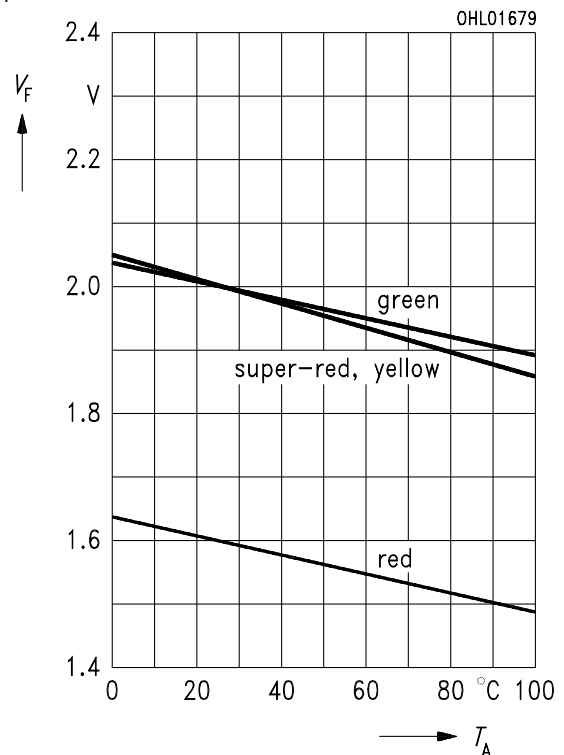
Dominantwellenlänge $\lambda_{\text{dom}} = f(T_A)$ Dominant wavelength

$$I_F = 20 \text{ mA}$$



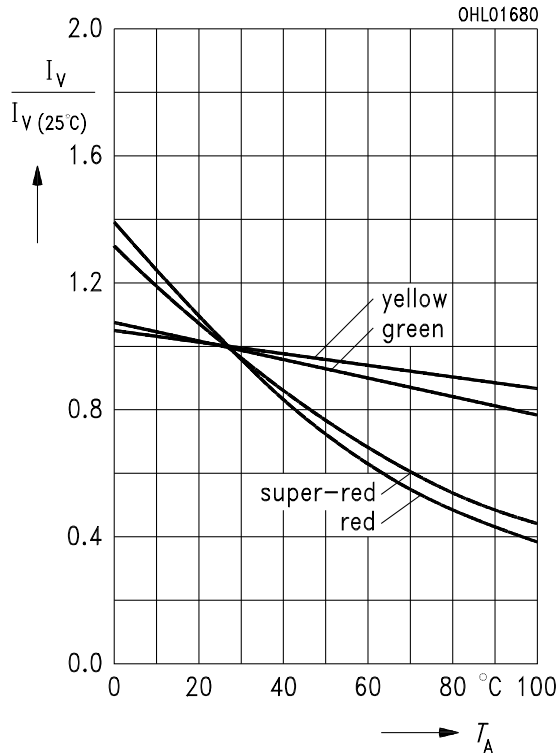
Durchlaßspannung $V_F = f(T_A)$ Forward voltage

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

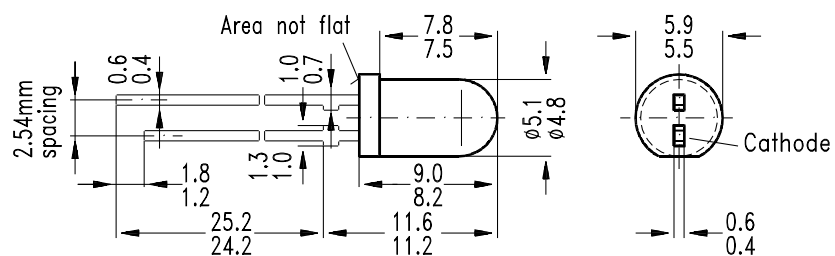


Relative Lichtstärke $I_V/I_{V(25^\circ\text{C})} = f(T_A)$
Relative luminous intensity

$I_F = 10 \text{ mA}$



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



Approx. weight 0.35 g

GEX06716

Kathodenkennzeichnung: Kürzerer Lötspieß
Cathode mark: Short solder lead