

SLOAN AG
 Birmannsgasse 8
 CH-4009 Basel
 Switzerland
 Tel.: +41 (0) 61 264 10 60
 Fax: +41 (0) 61 264 10 75
 E-Mail: sloan@sloan-basel.com
 www.sloan-basel.com

T1 LED's
 unbased

T1 Leuchtdioden
 ungesockelt

T1 Diodes lumineuses
 sans socle

All specifications according to information from our manufacturers, without additional guarantee on our part. Further types on request.

Alle Spezifikationen basieren auf Angaben unserer Lieferanten, ohne zusätzliche Garantie unsererseits. Weitere Typen auf Anfrage.

Toutes les spécifications selon indications de nos fabricants, sans garantie supplémentaire de notre part. Autres types sur demande.

L3
 No. 30, 31



Actual size
 Grösse 1:1
 Echelle 1:1

Réserve de modifications de toutes les données techniques
 Änderungen die dem technischen Fortschritt dienen, sind vorbehalten
 Specifications subject to change without notice

Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C										Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance											
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I _v			Forward voltage V _F			Code			V	mA										
							Viewing Angle	Typ. mcd	I _F mA	Typ. V	Max. V	I _F mA															
Quality acc. to MIL-Spec. 	30	Red	TL	650	- 30	- 30	28°	2.0	20	1.7	2.0	20	R300	O	without ohne sans												
		Rot	CP	660				60											2.1	2.5	20	R310	A	5	20		
		Rouge	TL					48														R320					
		Green	TL	555				40°											4.0	20	2.2	2.5	20	G300	B	12	20
		Grün	CP					40°											15					G310			
		Vert	TL					16°											8.0					G320			
								40°											14					G370			
		Yellow	TL	580				28°											12	20	2.2	2.5	20	Y300	C	18	20
		Gelb	CP					18°											24					Y310			
		Jaune	TL					16°											18					Y320			
		Amber	TL	605				28°											12	20	2.2	2.5	20	A300	D	24	20
		Orange	CP					28°											24					A310			
		Orange	TL					28°											18					A320			
			31	Red Rot Rouge				TL											700	- 40	- 40	40°	8.0	20	2.2	2.6	20
Green	TL			568	40°	40	2.1	2.6	20	G301																	
Yellow				585		30				Y301																	
Amber				635		4.5				2.0	2.6	A301															
														Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande													

① CP clear transparent / water clear
 TP transparent / colour clear
 WL white translucent / white diffused
 TL translucent / colour diffused

Many LED's are available in CP/TP/WL/TL
 Viele LED sind in CP/TP/WL/TL erhältlich
 Plusieurs diodes sont livrables en CP/TP/WL/TL

CP transparent klar
 TP farbig transparent
 WL weiss durchscheinend
 TL farbig durchscheinend

CP transparent clair
 TP transparent coloré
 WL transparent blanc
 TL transparent coloré

Order-code
 Bestell-code
 Code de commande

L3-

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L3
 No. 35-37



Actual size
 Grösse 1:1
 Echelle 1:1

Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C										Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance			
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity Iy			Forward voltage VF			Code			V	mA		
							Viewing Angle	Typ. mcd	IF mA	Typ. V	Max. V	IF mA							
Low Current type 	35	Red	TL	635	-55 +100	-55	50°	1.8	2	1.8	2.2	R3C2 G3C2 Y3C2 R3D2	O	without ohne sans					
		Green	565	-20 +100	+100	50°	1.6	1.8		2.2	2								
		Yellow	583	-55 +100		50°	1.6	1.9	2.7										
		Red	TL	645	-20 +100	-55 +100	60°	2.0	1	1.6	1.8			1	A	5	20		
2-colour Led: 2 terminals/Anschlüsse/raccords Viewing angle: 60° Tolerance: ± 0.25	36	Red	WL	625			60°	40	20	2.0	2.5	RG2F	B	12	20				
		Green	565							40	2.2			2.5					
		Red	WL	625	- 40	- 40		20	2.0	2.5	10			RY2F	F	32	18		
		Yellow	590	+ 85	+ 100	20		2.1	2.5										
		Green	WL	565				40	2.2	2.5									
		Yellow	WL	590				20	2.1	2.5									
2/3-colour Led: 3 terminals/Anschlüsse/raccords Viewing angle: 160° CC: Common Cathode	37	Red	WL	635			70°	20	10	2.0	2.8	RG36	C			18	20		
		Green	565							12.5	2.1							2.8	
		Red	WL	635	- 40	- 40		20	2.0	2.8	10			RY36	G			36	15
		Yellow	585	+ 85	+ 100	12.5		2.0	2.8										
		Green	WL	565					2.1	2.8									
		Yellow	WL	585				12.5	2.0	2.8									
Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande													H 42 12						

① CP clear transparent / water clear
 TP transparent / colour clear
 WL white translucent / white diffused
 TL translucent / colour diffused

CP transparent klar
 TP farbig transparent
 WL weiss durchscheinend
 TL farbig durchscheinend

CP transparent clair
 TP transparent coloré
 WL transparent blanc
 TL transparent coloré

Order-code
 Bestell-code
 Code de commande

L3-

Reserve de modifications de toutes les données techniques
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 Specifications subject to change without notice

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L3
 No. 39
 No. 3J, 3P



Actual size
 Grösse 1:1
 Echelle 1:1

Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C										Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance		
				Peak Wave-length λ _p	Operat. Temp.	Stor. Temp.	Luminous intensity I _v			Forward voltage V _F			Code			V	mA	
							Viewing Angle	Typ. mcd	I _F mA	Typ. V	Max. V	I _F mA						
Flashing Leds Frequency: 2 Hz Typ. 	39	Red	TL	625	-40	-50	60°	32	38	3.5	13	6-70	R3FF	O	without ohne sans			
		Red		660			60°	300										
		Green		565			60°	20										
		Yellow		590			60°	20										
Infrared-Light Emitting Diodes 	3J	BTP		150	880	-40 +100	5	1.0	1.7	2.1	10	J311	O	without ohne sans				
		TP		70	880	-40 +100			1.4	20	J31F							
Phototransistors 	3P	CP		100	940	-40 +100	30	25	5	7	100	P311	O	without ohne sans				

Réserve de modifications de toutes les données techniques

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Specifications subject to change without notice

① CP clear transparent / water clear
 TP transparent / colour clear
 WL white translucent / white diffused
 TL translucent / colour diffused

CP transparent klar
 TP farbig transparent
 WL weiss durchscheinend
 TL farbig durchscheinend

CP transparent clair
 TP transparent coloré
 WL transparent blanc
 TL transparent coloré

Order-code
 Bestell-code
 Code de commande

L3-

T1 LED's
unbased

T1 Leuchtdioden
ungesockelt

T1 Diodes lumineuses
sans socle

L3
No. 39

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Actual size
Grösse 1:1
Echelle 1:1

Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C								Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance			
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity Iy		Forward voltage VF					Code	V	mA	
							Viewing Angle	Typ. mcd	IF mA	Typ. V	Max. V						IF mA
	39	Yellow	CP	595	- 40	- 40	20°	1000	20	2.1	2.6	20	Y31B A31B R31W G31F	O	without ohne sans		
		Amber	CP	620	+ 85	+ 100	20°	1000	20	2.0	2.6	20			A	5	20
		Red	CP	660	- 40	- 40	50°	1000	20	1.85	2.5	20				B	12
		Green	CP	565	+ 85	+ 85	50°	300	20	2.2	2.5	20			C		18
	Yellow Gelb Jaune	CP	592	- 40 + 100	- 55 + 100	45°	200	20	1.9	2.4	20	Y31H	D	24	20		
	Red	TL	660	- 40 + 85	- 40 + 85	60°	300	20	1.85	2.5	20		R32F	E	28	20	
	Yellow	CP	595	-25 +75	-30 +100	22°	3500	20	2.2	2.5	20	Y41Q		F	32	18	
														G	36	15	
														H	42	12	
														Other V/mA combinations on request			
													Code	V	mA		
													O	without ohne sans			

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① CP clear transparent / water clear
TP transparent / colour clear
WL white translucent / white diffused
TL translucent / colour diffused

CP transparent klar
TP farbig transparent
WL weiss durchscheinend
TL farbig durchscheinend

CP transparent clair
TP transparent coloré
WL transparent blanc
TL transparent coloré

X separates Blatt

Order-code
Bestell-code
Code de commande

L3-

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T1^{3/4} LED's
unbased

T1^{3/4} Leuchtdioden
ungesockelt

T1^{3/4} Diodes lumineuses
sans socle

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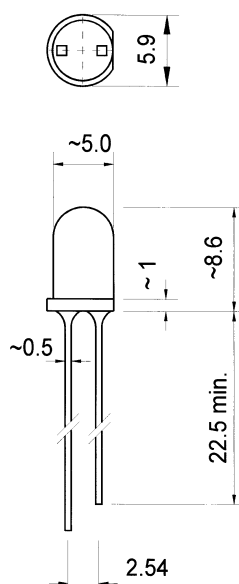
Toutes les spécifications selon indications de nos fabricants, sans garantie supplémentaire de notre part. Autres types sur demande.

L5
No. 70



Actual size
Grösse 1:1
Echelle 1:1

The brightest

Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C										Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance		
				Peak Wave-length λ _p nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I _v			Forward voltage V _F			Code			V	mA	
							Viewing Angle	Typ. mcd	I _F mA	Typ. V	Max. V	I _F mA						
	70	Red Rot Rouge	CP	660	- 40 + 85	- 40 + 85	30°	500	20	1.85	2.5	20		R61F	O	without ohne sans		
		30°					1000	R71F										
		30°					2000	R91F										
		30°					3500	R91W										
	Yellow				595		+ 100	8°	2200		2.1	2.6			Y911	A	5	20
	Green Grün Vert			CP	565	- 40 + 85	- 40 + 85	30°	300	20	2.2	2.5	20		G51W	B	12	20
	Green Grün Vert			CP	565	- 25 + 75	- 30 + 100	22°	1000	20	2.2	2.5	20		G71Q	C	18	20
	Red Rot Rouge			CP	623	- 40 + 100	- 40 + 120	15°	3500	20	2.0	2.4	20		R812	D	24	20
						6°	8000	R91H										
	Yellow Gelb Jaune			CP	594	- 40 + 100	- 40 + 120	6°	9300	20	2.0	2.4	20		Y91H	F	32	18
	Red			CP	660	- 25 + 85	- 30 + 100	15°	4000	20	2.0	2.5	20		R919	G	36	15
	Yellow Gelb Jaune			CP	592	- 40 + 100	- 40 + 120	7°	3500	20	1.9	2.4	20		Y912	H	42	12
	Yellow Gelb Jaune			CP	592	- 40 + 100	- 40 + 120	24°	800	20	1.9	2.4	20		Y712			

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Specifications subject to change without notice

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TP transparent / colour clear
WL white translucent / white diffused
TL translucent / colour diffused

CP transparent klar
TP farbig transparent
WL weiss durchscheinend
TL farbig durchscheinend

CP transparent clair
TP transparent coloré
WL transparent blanc
TL transparent coloré

X separates Blatt

Order-code
Bestell-code
Code de commande

L5- [] [] [] [] []

T1-T1^{3/4} Bi-Polar LEDs unbased

- Dual-Chip LED, Bi-Polar
- Independent of Polarity
- Suitable for AC/DC

- Dual-Chip LED, Bi-Polar
- Polaritätsunabhängig
- Geeignet für AC/DC

- Dual-Chip LED, Bi-Polaire
- Indépendance des Polarités
- Appropriée pour AC/DC

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L3
No. 49



L5
No. 59



Actual size
Grösse 1:1
Echelle 1:1

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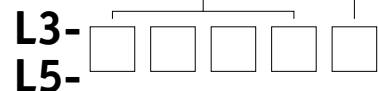
Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C								Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance											
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I _v			Forward voltage V _F				Code	V	mA									
							Viewing Angle	Typ. mcd	I _F mA	Typ. V	Max. V						I _F mA								
<p>L3</p>	49	Red	TL	625	- 40	- 40	60°	40	20	2.0	2.5	20	RR3F	O	without ohne sans										
		Red		625						2.0	2.5														
		Green		565						2.2	2.5														
		Green		565						2.2	2.5														
		Yellow		590						2.1	2.5														
		Yellow		590						2.1	2.5														
<p>L5</p>	59	Red	TL	660	- 40	- 40	60°	200	20	1.85	2.5	20	RR5W	H	42	12									
		Red		660						1.85	2.5														
		Green		565						2.2	2.5														
		Green		565						2.2	2.5														
		Yellow		590						2.1	2.5														
		Yellow		590						2.1	2.5														
		Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande																							

Specifications subject to change without notice

① TL translucent / colour diffused TL farbig durchscheinend TL transparent coloré

Alternative or direct current can be applied – without a rectifier.
An excellent side visibility is provided using the Bipolars in our indicator Series 175, 176–178 and 355.
With our Bipolar LEDs the anode/cathode problem – is no longer a problem:

Order-code
Bestell-code
Code de commande



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ATTENTION
 Observe Precautions
 for Handling
 Electrostatic Sensitive
 Devices

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 unbased

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 ungesockelt

T1 Diodes lumineuses
 sans socle

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 Autres types sur demande.

L3/L5



Actual size
 Grösse 1:1
 Echelle 1:1

Réserve de modifications de toutes les données techniques

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Specifications subject to change without notice

Package dimensions All dimensions are in millimeters	Type No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C								Viewing angle °	Type Typ Type	Resistor Widerstand Résistance					
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I _v		Forward voltage V _F					Code	V	mA			
							Typ. mcd	I _F mA	Typ. V	Max. V	I _F mA								
L3 	1	Blue	CP	470	-30 +80	-40 +100	2000	20	3.6	4	20	15	B71G	O	without ohne sans				
	2	Blau					1000					30				B41G			
	3	Bleu					600					45				B51G			
	L5 	1	Green	CP	525	-30 +80	-40 +100	6800	20	3.5	4	20	15	G41N	A	5	20		
		2	Grün					3400					30					G51N	
		3	Vert					2000					45					G31N	
		L3 (continued)	1	White	CP	x=0.32 y=0.31	-30 +80	-40 +100	2800	20	3.6	4	20	25	W33N	B	12	20	
			2	Weiss					1910					35					W35N
			2	Blanc					1270					60					W34N
	L5 (continued)		1	White	CP	x=0.32 y=0.31	-30 +80	-40 +100	5600	20	3.6	4	20	20	W54N	G	36	15	
			2	Weiss					1560					50					W52N
			2	Blanc					420					70					W50N
L3 (continued)		1	White	WL	x=0.32 y=0.31	-30 +80	-40 +100	680	20	3.6	4	20	70	W30N	C	18	20		
		2	Weiss					1910					35					W35N	
		2	Blanc					1270					60					W34N	
	L5 (continued)	2	Bluish-Green	CP	500	-30 +80	-40 +100	3600	20	3.5	4	20	8	BG1N	D	24	20		
		2	Weiss					1560					50					W52N	
		2	Blanc					420					70					W50N	
L3 (continued)		1	Blue	CP	470	-30 +80	-40 +100	3000	20	3.6	4	20	15	B91G	H	42	12		
		2	Blau					1300					30					B21G	
		3	Bleu					700					45					B61G	
	L5 (continued)	1	Green	CP	525	-30 +80	-40 +100	10000	20	3.5	4	20	15	G81N	G	36	15		
		2	Grün					4400					30					G61N	
		3	Vert					2400					45					G71N	
L3 (continued)		1	White	CP	x=0.32 y=0.31	-30 +80	-40 +100	5600	20	3.6	4	20	20	W54N	G	36	15		
		2	Weiss					1560					50					W52N	
		2	Blanc					420					70					W50N	
	L5 (continued)	2	Bluish-Green	CP	500	-30 +80	-40 +100	3600	20	3.5	4	20	8	BG1N	D	24	20		
		2	Weiss					1560					50					W52N	
		2	Blanc					420					70					W50N	

Type No.	Dimension (mm)			
	A	B	C	D
1	5	6	11	27.5
2	4.4	5.4	10.4	26.9
3	4	5	9.7	26.2
Tolerance	-0.2	-0.2	-0.5	-1

Type No.	Dimension (mm)			
	A	B	C	D
1	7.6	8.6	12.4	28.9
2	7.3	8.3	12.1	28.6
3	6.6	7.6	11.3	27.8
Tolerance	-0.2	-0.2	-0.5	-1

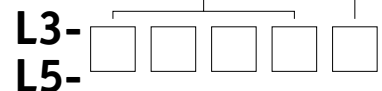
Attention
 Additional specifications sheets are available on request:
 - min./max. luminous intensity
 - absolute max. ratings
 - selection of colour and brightness
 - luminous spectrum
 - reliability tests
 - how to prevent LED's from being damaged by electrostatic shocks

CP clear transparent / water clear
 TP transparent / colour clear
 WL white translucent / white diffused
 TL translucent / colour diffused

CP transparent klar
 TP farbig transparent
 WL weiss durchscheinend
 TL farbig durchscheinend

CP transparent clair
 TP transparent coloré
 WL transparent blanc
 TL transparent coloré

Order-code
 Bestell-code
 Code de commande



T1^{3/4} LED's
unbased

T1^{3/4} Leuchtdioden
ungesockelt

T1^{3/4} Diodes lumineuses
sans socle

L5
No. 50-54



Actual size
Grösse 1:1
Echelle 1:1

SLOAN AG
Birmannsgasse 8
CH-4009 Basel
Switzerland
Tel.: +41 (0) 61 264 10 60
Fax: +41 (0) 61 264 10 75
E-Mail: sloan@sloan-basel.com
www.sloan-basel.com

All specifications according to information from our manufacturers, without additional guarantee on our part. Further types on request.

Alle Spezifikationen basieren auf Angaben unserer Lieferanten, ohne zusätzliche Garantie unsererseits. Weitere Typen auf Anfrage.

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Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C										Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance			
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity Iy			Forward voltage VF			Code			V	mA		
							Viewing Angle	Typ. mcd	IF mA	Typ. V	Max. V	IF mA							
Quality acc. to MIL-Spec.: No.50 	50	Red	TL	660	-30 +85	-30 +100	30°	20	20	1.7	2.0	20	R500	O	without ohne sans				
		Rot	CP	660			16°	160					20			2.1	2.5	R510	
		Rouge	TL				30°	30										R520	
		Green	TL	555			30°	10					20	2.1	2.5	G500	A	5	20
		Grün	CP				16°	80								G510			
		Vert	TL				30°	15								G520			
		Yellow	TL	580			30°	24					20	2.2	2.5	G570	B	12	20
		Gelb	CP				16°	90								Y500			
		Jaune	TL				30°	24								Y510			
		Amber	TL	605			30°	16					20	2.2	2.5	Y520	C	18	20
		Orange	CP				15°	90								A500			
		Orange	TL				30°	24								A510			
		Green	TP	555			10°	150					20	2.2	2.5	A520	D	24	20
		Yellow	TP				10°	150								G530			
		Amber	TP				10°	250								Y530			
Quality acc. to MIL-Spec.: No.53 	53	Red	CP	660	-40 +85	-40 +85	30°	1000	20	1.85	2.5	20	R71F	F	32	18			
		Rot	660	30°			2000	R91F											
		Rouge		30°			3500	R91W											
				-25 +85 -30 +100			15°	4000					R919						
		Red	TL	700			40°	9.0					20	2.2	2.6	R501	H	42	12
		Rot	635				40°	80								R521			
		Rouge	TP				660	18°								1200			
		Green	CP	660			18°	1200					20	2.0	2.6	R711			
		Green	TL	568			40°	80								G501			
		Yellow	TL				40°	80								Y501			
		Amber	TL				40°	80					A501						
		Red	TL	635			60°	7.0					10	1.9	2.4	R502			
		Rot	CP				24°	240								R512			
		Rouge																	
		Green	TL	565			60°	5.2					10	2.3	3.0	G502			
Grün	CP	24°	120		G512														
Vert																			
Yellow	TL	583	60°	8.0	10	2.2	3.0	Y502											
Gelb	CP		24°	140				Y512											
Jaune																			
Amber	TL	612	60°	3.5	10	2.2	3.0	A502											
Orange																			
Low current type: No.54 	54	Red	TL	635	-55 +100	-55 +100	50°	2.0	2	1.8	2.2	2	R5C2						
		Green	TL	565			50°	1.8					G5C2						
		Yellow	TL	583			50°	1.8					Y5C2						
		Red	TL	645			65°	3.0					1			1.6	1.8	1	R5D2

CP clear transparent / water clear
TP transparent / colour clear
WL white translucent / white diffused
TL translucent / colour diffused

CP transparent klar
TP farbig transparent
WL weiss durchscheinend
TL farbig durchscheinend

CP transparent clair
TP transparent coloré
WL transparent blanc
TL transparent coloré

Order-code
Bestell-code
Code de commande

L5- [] [] [] [] []

Reserve de modifications de toutes les données techniques
Änderungen die dem technischen Fortschritt dienen, sind vorbehalten
Specifications subject to change without notice

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T1^{3/4} LED's
 unbased

T1^{3/4} Leuchtdioden
 ungesockelt

T1^{3/4} Diodes lumineuses
 sans socle

L5
 No. 55-57



Actual size
 Grösse 1:1
 Echelle 1:1

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Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C										Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance																																									
				Peak Wave-length λ _p	Operat. Temp.	Stor. Temp.	Luminous intensity I _v			Forward voltage V _F			Code			V	mA																																								
							Viewing Angle	Typ. mcd	I _F mA	Typ. V	Max. V	I _F mA																																													
Low dome execution 	55	Red	TL	650	- 30 + 85	- 30 + 100	60°	3.0	20	1.7	2.0	20	SA	R400	O	without ohne sans																																									
		Rot	CP	660				60					20	1.7			2.0	20	SG	R410																																					
		Rouge	TL					30											SG	R420																																					
		2-colour Led: 2 terminals/Anschlüsse/raccords 	56	Green				TL					555	- 40 + 85			- 40 + 85	60°	8.0	20	2.1	2.5	20	SN	G400	A	5	20																													
				Grün				CP					565						24					20	2.1				2.5	20	SG	G410																									
				Vert				TL											12												SG	G420																									
				2/3-colour Led: 3 terminals/Anschlüsse/raccords 				57					Yellow						TL					580	- 40 + 85				- 40 + 85	60°	20	20	2.2	2.5	20	SD	G470	B	12	20																	
													Gelb						CP					590							45					20	2.2				2.5	20	SD	Y400													
													Jaune						TL												30												SG	Y410													
													No. 56, 57: Tolerance: ± 0.25 						57					Amber							TL					605	- 40 + 85				- 40 + 85	60°	20	20	2.2	2.5	20	SD	A400	D	24	20					
																								Orange							CP												625					45	20				2.2	2.5	20	SG	A410
																								Orange							TL																	30								SG	A420
Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande	56				Red	WL	625		- 40 + 85	- 40 + 85	60°	Max.			20	2.0								2.5							20												FK					RG5F	E				28	20			
					Green		565					40																																				2.2							2.5	RY5F	
					Red		625					50																																				2.0							2.5	GY5F	
		Yellow	590		20		2.1					2.5																																													
		Green	565		40		2.2					2.5																																													
		Yellow	590		20		2.1					2.5																																													
		Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande	57	Red	WL	625	- 40 + 85	- 40 + 85				60°		90			20	2.0		2.5	20	FA	RGKF		H	42	12																														
				Green		565								70									2.2					2.5																													
				Orange		--								--									--					--																													
				Red		625							8.0	2.0					2.5																																						
				Green		565							8.0	2.2					2.5																																						
				Orange		--							--	--					--																																						
Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande	57			Red	WL	660			- 40 + 85	- 40 + 85	60°		300	20	1.85	2.5			20				FB	RGKW				I	36	15																											
				Green		565							80											2.2							2.5																										
				Red		625							90											2.0							2.5																										
				Yellow		590							60											2.1							2.5																										
				Green		565							70											2.2							2.5																										
				Yellow		590							60											2.1							2.5																										
		Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande	57	Red	CP	660	- 40 + 85	- 40 + 85				24°	700				20	1.85		2.5	20	FP		RGWW	J	18	20																														
				Green		565							200											2.2							2.5																										
				Red		660							700											1.85							2.5																										
				Green		565							200											2.2							2.5																										
				Red		660							700											1.85							2.5																										
				Green		565							200											2.2							2.5																										
Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande	57			Red	CP	660			- 40 + 85	- 40 + 85	24°		700	20	1.85	2.5			20				FP	RGVW				K	12	12																											
				Green		565							200											2.2							2.5																										
				Red		660							300											2.0							2.5																										
				Yellow		590							80											2.1							2.5																										
				Green		565							200											2.2							2.5																										
				Yellow		590							80											2.1							2.5																										

Réserve de modifications de toutes les données techniques

Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Specifications subject to change without notice

① CP clear transparent / water clear
 TP transparent / colour clear
 WL white translucent / white diffused
 TL translucent / colour diffused

CP transparent klar
 TP farbig transparent
 WL weiss durchscheinend
 TL farbig durchscheinend

CP transparent clair
 TP transparent coloré
 WL transparent blanc
 TL transparent coloré

Order-code
 Bestell-code
 Code de commande

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T1^{3/4} LED's
 unbased

T1^{3/4} Leuchtdioden
 ungesockelt

T1^{3/4} Diodes lumineuses
 sans socle

L5
No. 58
No. 5J, 5P



Actual size
 Grösse 1:1
 Echelle 1:1

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Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C								Price-code Preis-Code Code de prix	Type Typ Type	Resistor Widerstand Résistance					
				Peak Wave-length λ _p nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I _v		Forward voltage V _F					Code	V	mA			
							Viewing Angle	Typ. mcd	I _F mA	Typ. V	Max. V						I _F mA		
Flashing Leds Frequency 2.2 Hz Frequency 2 Hz Typ. Tolerance: ± 0.25	58	Red	TL	635	0	-20	55°	12.0	10-20	3	15	10-20	R5F1 G5F1 Y5F1 A5F1 R5FB	O	without ohne sans				
		Green	5668			55°	15.0									A	5	20	
		Yellow	585	+70	+85	55°	10.0								B		12	20	
		Amber	635			55°	12.0										C	18	20
		Red	660			55°	25.0											D	24
	Red	TL	625	-40	-10	60°	80	38	3.5	13	6-70	R5FF	E	28	20				
	Red	660	+70	+100	60°	300						R5FW		F	32	18			
	Green	565			60°	32						G5FF			G	36	15		
	Yellow	590			60°	32						Y5FF				H	42		12
															Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande				
		No.	Epoxy of LED	Electrical and radiant characteristics (Ta = 25°C)									Type Typ Type						
				Power Dissipation Max. mW	Peak Wave-length λ _p Typ. nm	Operation [Storage] Temp. °C max.	Reverse voltage V _R Max. V	Peak Forward Current I _{FM} [10μs, Duty 1%] A max.	Forward voltage V _F										
									Typ.	Max.	I _F								
Infrared-Light Emitting Diodes 	5J	BTP		150	880	-40 +100	5	1.0	1.7	2.0	10		J511	O	without ohne sans				
Phototransistors 	5P	CP		100	940	-40 +100	30	25	5	7	100		P511	O	without ohne sans				

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 TL translucent / colour diffused

CP transparent klar
 TP farbig transparent
 WL weiss durchscheinend
 TL farbig durchscheinend

CP transparent clair
 TP transparent coloré
 WL transparent blanc
 TL transparent coloré

X separates Blatt

Order-code
 Bestell-code
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ATTENTION

Observe Precautions for Handling

Electrostatic Sensitive Devices

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Réserve de modifications de toutes les données techniques

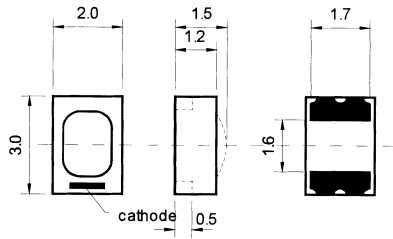
Änderungen die dem technischen Fortschritt dienen, sind vorbehalten

Specifications subject to change without notice

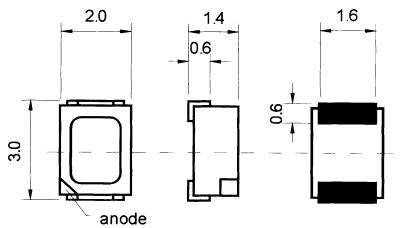
Package dimensions

All dimensions are in millimeters

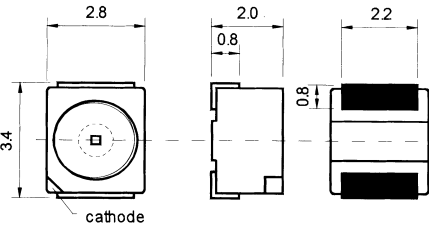
Type No. 1



Type No. 2



Type No. 3



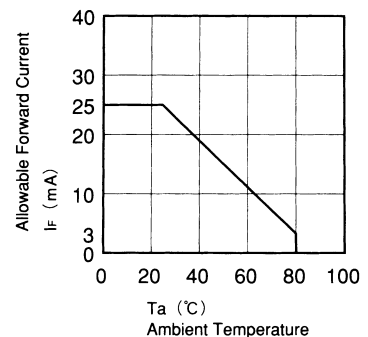
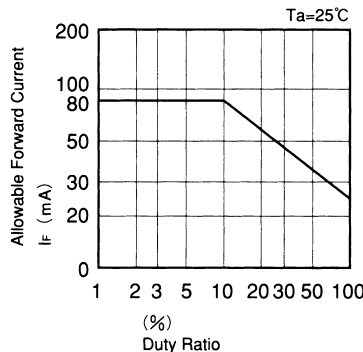
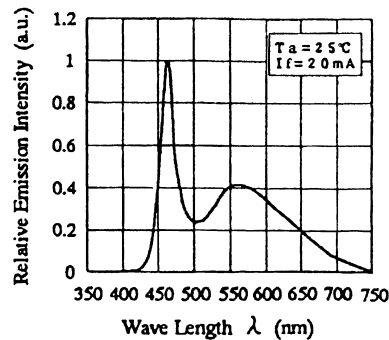
Type No.	Emitted colour	Epoxy of SMD-LED	Electro-optical characteristics Ta = 25°C								Type Typ Type
			Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity Typ. mcd	Forward voltage VF			Viewing angle °	
							Typ. V	Max. V	IF mA		
3	Amber	CP	620	- 20 + 80	- 30 + 100	72	2	2.6	20	120	SMD-A001
1	Blue	CP	470			65	3.5	4	20	120	SMD-B01N
1	Green	CP	525			210	3.5	4	20	120	SMD-G01N
2	Red	CP	660			300	1.85	2.5	20	90	SMD-R06F
1	White	CP	x=0.31 y=0.32			320	3.6	4	20	120	SMD-W01N
3	Yellow	CP	595			72	2	2.6	20	120	SMD-Y001

Attention

Additional specifications sheets are available on request:

- min./max. luminous intensity
- absolute max. ratings
- selection of colour and brightness
- luminous spectrum
- reliability tests
- how to prevent LED's from being damaged by electrostatic shocks

Spectrum of white SMD-LED's



CP clear transparent / water clear
TP transparent / colour clear
WL white translucent / white diffused
TL translucent / colour diffused

CP transparent klar
TP farbig transparent
WL weiss durchscheinend
TL farbig durchscheinend

CP transparent clair
TP transparent coloré
WL transparent blanc
TL transparent coloré

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Bestell-code
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SMD-