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 www.sloan-basel.com

**T1 LED's**  
 unbased

**T1 Leuchtdioden**  
 ungesockelt

**T1 Diodes lumineuses**  
 sans socle

**L3**  
 No. 35-37



Actual size  
 Grösse 1:1  
 Echelle 1:1

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.

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

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



Réserve 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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**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 λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I <sub>v</sub>		Forward voltage V <sub>F</sub>					Code	V	mA
							Viewing Angle	Typ. mcd	Typ. mA	Max. V	I <sub>F</sub> mA					
<b>Flashing Leds</b> Frequency: 2 Hz Typ.  	39	Red	TL	625	-40	-50	60°	32	38	3.5	13	6-70	R3FF R3FW G3FF Y3FF	O	without ohne sans	
		Red		660			60°	300								
		Green		565			60°	20								
		Yellow		590			60°	20								
<b>Infrared-Light Emitting Diodes</b>  	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	J3IF				
<b>Phototransistors</b>  	3P	CP		100	940	-40 +100	30	25	5	7	100	P311	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

Order-code  
 Bestell-code  
 Code de commande

**L3-**



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**T1<sup>3</sup>/<sub>4</sub> LED's**  
 unbased

**T1<sup>3</sup>/<sub>4</sub> Leuchtdioden**  
 ungesockelt

**T1<sup>3</sup>/<sub>4</sub> Diodes lumineuses**  
 sans socle

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**L5**  
 No. 70



Actual size  
 Grösse 1:1  
 Echelle 1:1

## The brightest

Réservation 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 λ <sub>p</sub> nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I <sub>v</sub>		Forward voltage V <sub>F</sub>				Code			V	mA	
							Viewing Angle	Typ. mcd	I <sub>F</sub> mA	Typ. V	Max. V	I <sub>F</sub> mA						
	70	Red Rot Rouge	CP	660	- 40 + 85	- 40 + 85	30°	500	20	1.85	2.5	20		R61F R71F R91F R91W Y911	O	without ohne sans		
			30°				1000											
			30°				2000											
			30°				3500											
		Yellow		595		+ 100		8°	2200		2.1	2.6			A	5	20	
		Green Grün Vert	CP	565	- 40 + 85	- 40 + 85	30°	300	20	2.2	2.5	20			B	12	20	
		Green Grün Vert	CP	565	- 25 + 75	- 30 + 100	22°	1000	20	2.2	2.5	20			C	18	20	
		Red Rot Rouge	CP	623	- 40 + 100	- 40 + 120	15°	3500	20	2.0	2.4	20			D	24	20	
							6°	8000									E	28
		Yellow Gelb Jaune	CP	594	- 40 + 100	- 40 + 120	6°	9300	20	2.0	2.4	20			F	32	18	
		Red	CP	660	- 25 + 85	- 30 + 100	15°	4000	20	2.0	2.5	20			G	36	15	
		Yellow Gelb Jaune	CP	592	- 40 + 100	- 40 + 120	7°	3500	20	1.9	2.4	20			H	42	12	
Yellow Gelb Jaune	CP	592	- 40 + 100	- 40 + 120	24°	800	20	1.9	2.4	20								

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



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## T1-T1<sup>3/4</sup> Bi-Polar LEDs unbased

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



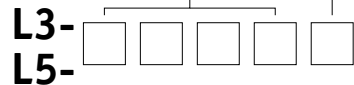
Actual size  
Grösse 1:1  
Echelle 1:1

Package dimensions All dimensions are in millimeters	No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C										Type Typ Type	Resistor Widerstand Résistance		
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I <sub>v</sub>		Forward voltage V <sub>F</sub>			Price-code Preis-Code Code de prix	Code		V	mA	
							Viewing Angle	Typ. mcd	I <sub>F</sub> mA	Typ. V	Max. V						I <sub>F</sub> mA
<p><b>L3</b></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			A 5 20			
		Green		565			60°	20	20	2.2	2.5	20		B 12 20			
		Green		565						2.2	2.5			C 18 20			
		Yellow		590			60°	20	20	2.1	2.5	20		D 24 20			
Yellow	590	2.1	2.5	E 28 20													
<p><b>L5</b></p>	59	Red	TL	660	- 40	- 40	60°	200	20	1.85	2.5	20	RR5W	F 32 18			
		Red		660						1.85	2.5			G 36 15			
		Green		565			60°	20	20	2.2	2.5	20		H 42 12			
		Green		565						2.2	2.5			Other V/mA combinations on request			
		Yellow		590			60°	20	20	2.1	2.5	20		Andere V/mA Kombinationen auf Wunsch			
Yellow	590	2.1	2.5	Autres V/mA combinations sur demande													

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

**T1 Leuchtdioden**  
 ungesockelt

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**L3/L5**



Actual size  
 Grösse 1:1  
 Echelle 1:1

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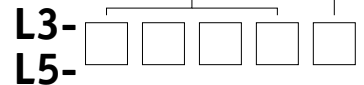
Package dimensions All dimensions are in millimeters	Type No.	Emitted colour	Epoxy of LED	Electro-optical characteristics Ta = 25°C							Type Typ Type	Resistor Widerstand Résistance																																			
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I <sub>v</sub>		Forward voltage V <sub>F</sub>			Viewing angle °	Code	V	mA																																
							Typ.	I <sub>F</sub> mA	Typ.	Max.						I <sub>F</sub> mA																															
<b>L3</b> 	1	Blue	CP	470	-30 +80	-40 +100	2000	20	3.6	4	20	15	O	without ohne sans																																	
	2	Blau					1000					30																																			
	3	Bleu					600					45																																			
	1	Green	CP	525	-30 +80	-40 +100	6800	20	3.5	4	20	15	A	5	20																																
	2	Grün					3400					30																																			
	3	Vert					2000					45																																			
	1	White	CP	x=0.32 y=0.31	-30 +80	-40 +100	2800	20	3.6	4	20	25	B	12	20																																
	2	Weiss					1910					35																																			
	2	Blanc					1270					60																																			
				WL				680				70																																			
		<table border="1"> <thead> <tr> <th>Type No.</th> <th colspan="4">Dimension (mm)</th> </tr> <tr> <td></td> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5</td> <td>6</td> <td>11</td> <td>27.5</td> </tr> <tr> <td>2</td> <td>4.4</td> <td>5.4</td> <td>10.4</td> <td>26.9</td> </tr> <tr> <td>3</td> <td>4</td> <td>5</td> <td>9.7</td> <td>26.2</td> </tr> <tr> <td>Tolerance</td> <td>-0.2</td> <td>-0.2</td> <td>-0.5</td> <td>-1</td> </tr> </tbody> </table>				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	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																																											
<b>L5</b> 	1	Blue	CP	470	-30 +80	-40 +100	3000	20	3.6	4	20	15	H	42	12																																
	2	Blau					1300					30																																			
	3	Bleu					700					45																																			
	1	Green	CP	525	-30 +80	-40 +100	10000	20	3.5	4	20	15																																			
	2	Grün					4400					30																																			
	3	Vert					2400					45																																			
	1	White	CP	x=0.32 y=0.31	-30 +80	-40 +100	5600	20	3.6	4	20	20																																			
	2	Weiss					1560					50																																			
	2	Blanc					420					70																																			
	2	Bluish-Green	CP	500				3600	20	3.5	4	20	8																																		
								1200					32																																		
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	Type No.	Dimension (mm)																																													
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Tolerance	-0.2	-0.2	-0.5	-1																																											
					<b>Attention</b>			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																																							
												Other V/mA combinations on request Andere V/mA Kombinationen auf Wunsch Autres V/mA combinations sur demande																																			

CP clear transparent / water clear  
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 TL farbig durchscheinend

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 TP transparent coloré  
 WL transparent blanc  
 TL transparent coloré

Order-code  
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 unbased

**T1<sup>3/4</sup> Leuchtdioden**  
 ungesockelt

**T1<sup>3/4</sup> Diodes lumineuses**  
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**L5**  
 No. 50-54



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										Type Typ Type	Resistor Widerstand Résistance				
				Peak Wave-length λp nm	Operat. Temp. °C	Stor. Temp. °C	Luminous intensity I <sub>v</sub>		Forward voltage V <sub>f</sub>			Price-code Preis-Code Code de prix	Code		V	mA			
							Viewing Angle	Typ. mcd	I <sub>f</sub> mA	Typ. V	Max. V						I <sub>f</sub> 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					R510						
		Rouge	TL	660			30°	30					R520						
		Green	TL	555			30°	10					G500						
		Grün	CP				16°	80					G510						
		Vert	TL				30°	15					G520						
	Yellow	TL	580	30°	24	G570													
	Gelb	CP		16°	90	Y500													
	Jaune	TL		30°	24	Y510													
	Amber	TL	605	30°	16	Y520													
	Orange	CP		15°	90	A500													
	Orange	TL		30°	24	A510													
	Quality acc. to MIL-Spec.: No.53 	51	Red	CP	660	-40 +85	-40 +85	30°	1000	20	1.85	2.5	20	R71F	E	28	20		
			Rot					30°	2000					R91F					
			Rouge					30°	3500					R91W					
		52	Red	TL	700	-40 +85	-40 +100	40°	9.0	20	2.2	2.6	20	R919	F	32	18		
			Rot	CP	635			40°	80					R501					
			Rouge	TP	660			18°	1200					R521					
Green			CP	660	40°			80	R631										
Green			TL	568	40°			80	R711										
Yellow			TL	585	40°			80	G501										
Amber			635	40°	80	Y501													
53		Red	TL	635	-55 +100	-55 +100	60°	7.0	10	1.9	2.4	10	A501	G	36	15			
		Rot	CP	645			24°	240					R502						
	Rouge							R512											
	Green	TL	565	60°			5.2	10					2.3				3.0	10	G502
	Grün	CP		24°			120	20					2.3				3.0	20	G512
	Yellow	TL	583	60°			8.0	10					2.2				3.0	10	Y502
Gelb	CP	24°		140	20	2.2	3.0	20	Y512										
Amber	TL	612	60°	3.5	10	2.2	3.0	10	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	H	42	12			
		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

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



Réserve 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<sup>3</sup>/<sub>4</sub> LED's**  
 unbased

**T1<sup>3</sup>/<sub>4</sub> Leuchtdioden**  
 ungesockelt

**T1<sup>3</sup>/<sub>4</sub> Diodes lumineuses**  
 sans socle

**L5**  
 No. 55-57



Actual size  
 Grösse 1:1  
 Echelle 1:1

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

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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 <sub>v</sub>			Forward voltage V <sub>F</sub>			Code			V	mA								
							Viewing Angle	Typ. mcd	I <sub>F</sub> mA	Typ. V	Max. V	I <sub>F</sub> mA													
<b>Low dome execution</b> 	55	Red	TL	650	- 30 + 85	- 30 + 100	3.0	20	1.7	2.0	20	SA	<b>R400</b>	O	without ohne sans										
		Rot	CP	660								60	20		2.0	20	SG	<b>R410</b>	A	5	20				
		Rouge	TL									30								<b>R420</b>	B	12	20		
		Green	TL									8.0							SN	<b>G400</b>		C	18	20	
		Grün	CP	555								24	20	2.1	2.5	20	SG	<b>G410</b>	D	24			20		
		Vert	TL	565								12								SD		<b>G420</b>	E	28	20
													24							SD		<b>G470</b>		F	32
		Yellow	TL									20								SD		<b>Y400</b>	G		36
		Gelb	CP	580								45	20	2.2	2.5	20	SG	<b>Y410</b>	H	42	12				
		Jaune	TL									30													
		Amber	TL									20													
		Orange	CP	605								45	20	2.2	2.5	20	SG	<b>A400</b>							
Orange	TL		30																						
							Max.																		
<b>2-colour Led: 2 terminals/Anschlüsse/raccords</b> 	56	Red	WL	625	- 40 + 85	- 40 + 85	60°	20	2.0	2.5	20	FK	<b>RG5F</b>	E	28		20								
		Green		565									40		2.2	2.5	20	FK	<b>RY5F</b>	F	32	18			
		Red		625									50		2.0	2.5			20		FK	<b>GY5F</b>	G	36	15
		Yellow		590									20		2.1	2.5	20	FK				H		42	12
		Green		565									40		2.2	2.5			20	FA	<b>RGKF</b>		H		
		Yellow		590									20		2.1	2.5	20	FA			<b>RGAF</b>	H			
		Red		625									90		2.0	2.5			20	FA	<b>RGKF</b>		H		
		Green		565									70		2.2	2.5	20	FA			<b>RGAF</b>	H			
		Orange		--									--		--	--			20	FA	<b>RGKF</b>		H		
		Red		625									8.0		2.0	2.5	20	FA			<b>RGAF</b>	H			
		Green		565									8.0		2.2	2.5			20	FA	<b>RGAF</b>		H		
		Orange		--									--		--	--	20	FA			<b>RGKF</b>	H			
Red	660	300	1.85	2.5	20	FB	<b>RGKW</b>	H																	
Green	565	80	2.2	2.5			20		FB	<b>RGKW</b>	H														
Red	625	90	2.0	2.5	20	FB		<b>RYKF</b>		H															
Yellow	590	60	2.1	2.5			20	FB	<b>RYKF</b>		H														
Green	565	70	2.2	2.5	20	FB			<b>GYKF</b>	H															
Yellow	590	60	2.1	2.5			20	FB	<b>GYKF</b>		H														
Red	CP	660	700	1.85	2.5	20			FP	<b>RGWW</b>		H													
Green	CP	565	200	2.2	2.5		20	FP		<b>RGWW</b>	H														
Red	CP	660	700	1.85	2.5	20			FP	<b>RGVW</b>		H													
Green	CP	565	200	2.2	2.5		20	FP		<b>RGVW</b>	H														
Red	CP	625	300	2.0	2.5	20			FB	<b>RYKW</b>		H													
Yellow	CP	590	80	2.1	2.5		20	FB		<b>RYKW</b>	H														
Green	CP	565	200	2.2	2.5	20			FB	<b>GYKW</b>		H													
Yellow	CP	590	80	2.1	2.5		20	FB		<b>GYKW</b>	H														

Réserve de modifications de toutes les données techniques

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Order-code  
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 Code de commande

**L5-**



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**ATTENTION**  
 Observe Precautions  
 for Handling  
 Electrostatic Sensitive  
 Devices

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Réserve de modifications de toutes les données techniques

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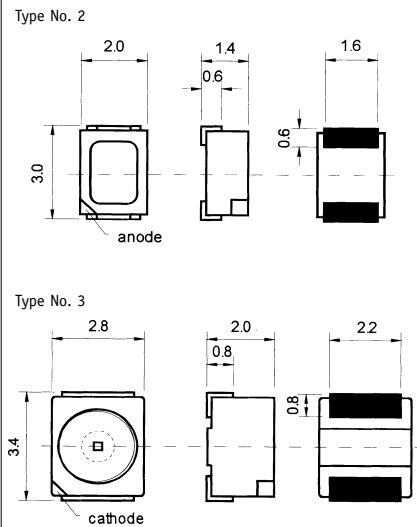
Specifications subject to change without notice

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

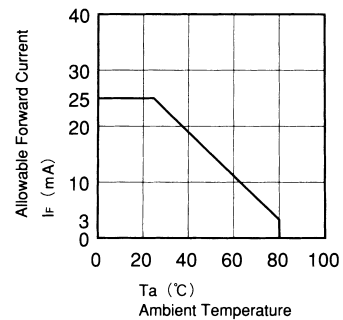
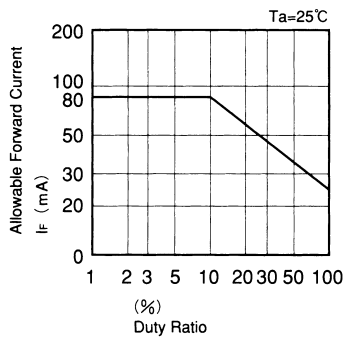
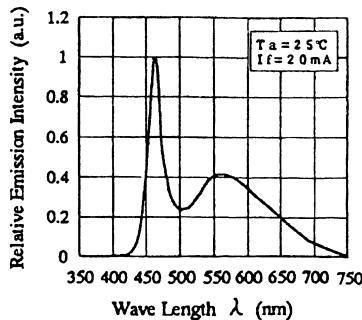
**Attention**

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



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**SMD-**