

4 Product List for SMD Type

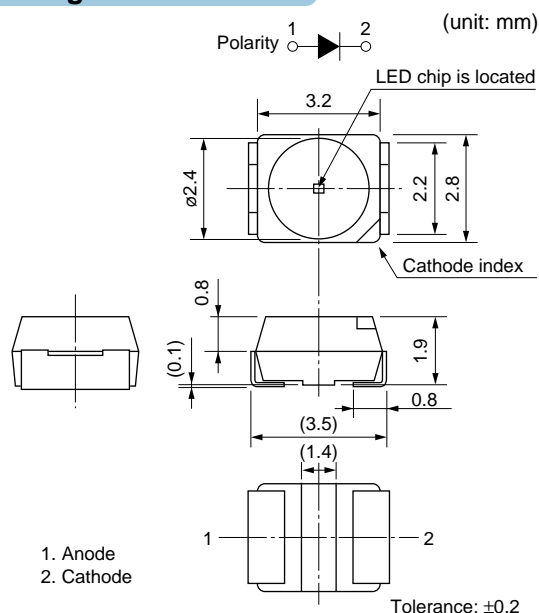
4. TL*1100 (T09), TL*E1100 (T11), S4F42* (T09)

Features

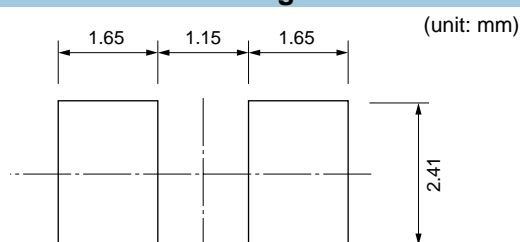
- Package dimensions: 3.2 (L) x 2.8 (W) x 1.9 (H) mm
- Four-element (InGaAlP)
- High-heat resistance extends the operating temperature range.
Topr = -40~100°C



Package Dimensions



Recommended Soldering Pad Dimensions



Maximum Rating

(Ta = 25°C)

Characteristics	Symbol	Rating	Unit
DC Forward Current	IF	30/50 (Note 1)	mA
DC Reverse Voltage	VR	4	V
Power Dissipation	PD	72~140 (Note 1)	mW
Operating Temperature	Topr	-40~100	°C
Storage Temperature	Tstg	-40~100	°C

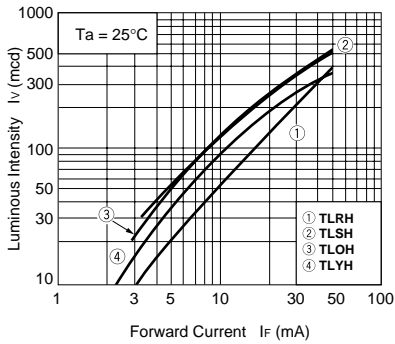
Note 1: please refer to each technical datasheet.

Electrical and Optical Characteristics

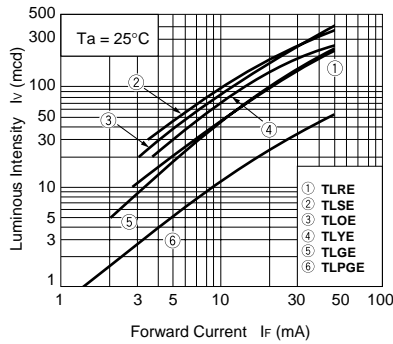
Series Name	Emitted-Light Color	Product Number	Typical Luminous Intensity Iv (mcd) @IF = 20 mA		Forward Voltage VF (V) @IF = 20 mA		Reverse Current IR (μA) @VR = 4 V	Typical Emission Wavelength (nm) @IF = 20 mA		
			Min	Typ.	Typ.	Max	Max	λp	Δλ	λd
TL*H Series	Red	TLRH1100(T09)	47.6	130	1.9	2.5	50	644	18	630
	Red	TLSH1100(T09)	85	240	2.1	2.5	50	623	15	613
	Orange	TLOH1100(T09)	85	260	2.1	2.5	50	612	15	605
	Yellow	TLYH1100(T09)	85	190	2.1	2.5	50	590	13	587
TL*E Series	Red	TLRE1100(T11)	47.6	100	1.9	2.4	50	644	18	630
	Red	TLSE1100(T11)	47.6	180	1.9	2.4	50	623	15	613
	Orange	TLOE1100(T11)	47.6	180	2.0	2.4	50	612	15	605
	Yellow	TLYE1100(T11)	47.6	150	2.0	2.4	50	590	13	587
	Green	TLGE1100(T11)	47.6	100	2.0	2.4	50	574	11	571
	Pure green	TLPGE1100(T11)	8.5	25	2.1	2.4	50	562	11	558
TL*U Series	Red	TLSU1100(T09)	27.2	80	2.0	2.4	50	636	17	623
	Orange	TLOU1100(T09)	47.6	100	2.0	2.4	50	612	15	605
	Yellow	TLYU1100(T09)	15.3	50	2.1	2.5	50	590	13	587
	Green	TLGU1100(T09)	15.3	45	2.3	2.8	50	574	11	571
	Pure green	TLPGU1100(T09)	4.76	12	2.3	2.8	50	562	11	558
Others	Green	S4F42Q1(T09)	47.6	110	2.27	2.8	50	574	11	571
	Pure green	S4F42Z1(T09)	8.5	25	2.27	2.8	50	562	11	558

Characteristics Diagram

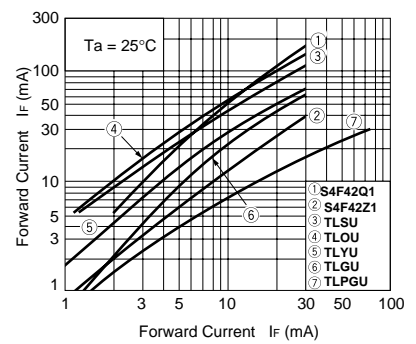
$I_v - I_f$



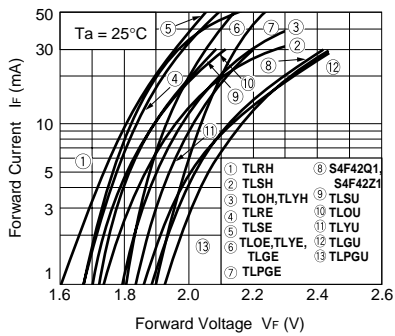
$I_v - I_f$



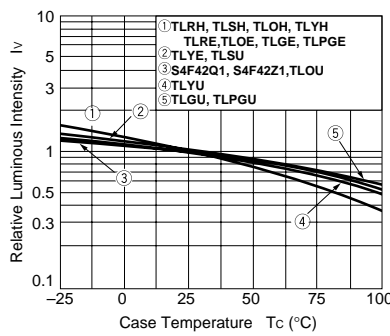
$I_v - I_f$



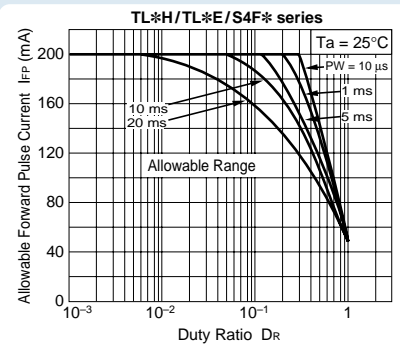
$I_f - V_f$



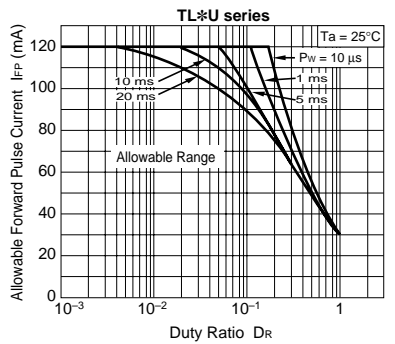
$I_v - T_c$



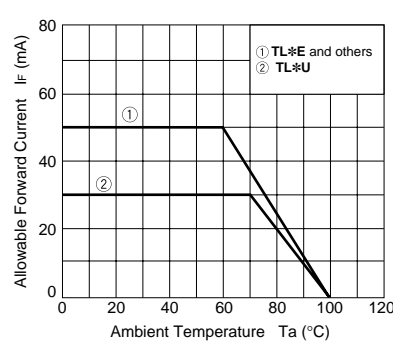
Allowable forward pulse current characteristics



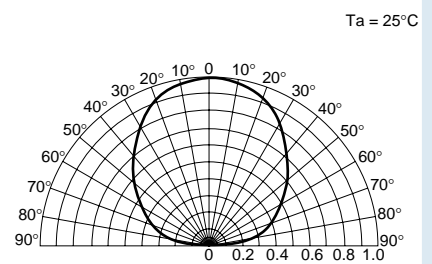
Allowable forward pulse current characteristics



$I_f - T_a$



Radiation pattern



Tape Specifications

Tape Packing Type	Tape Type Suffix	Pitches	Packing		Quantity/Reel
			Package dimensions (mm)	Appearance	
Embossed Tape Packing	T09	8 mm			1000/reel
Embossed Tape Packing	T11	4 mm			2000/reel