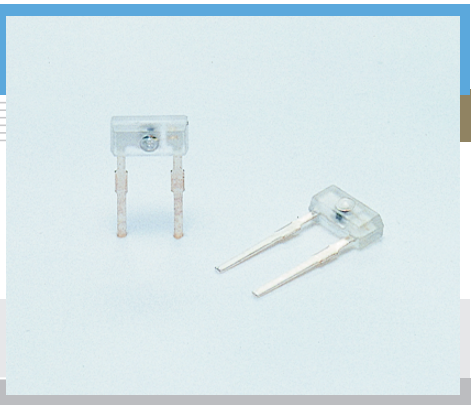
Infrared LED
L5276, L5586, L6286
Subminiature LED



L5276, L5586 and L6286 are infrared LED molded into a subminiature, clear plastic package.

Features

- Peak emission wavelength
  L5276 : 880 nm
  L5586, L6286: 940 nm
- L6286: High output power
- Subminiature plastic package with lens

Applications

- Optical switches
- Cameras
- Encoders

■ Absolute maximum ratings (Ta=25 °C)

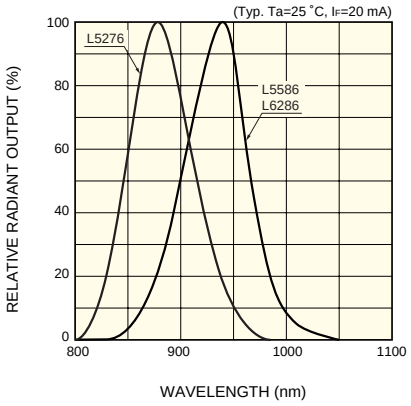
Parameter	Symbol	Condition	Value	Unit
Forward current	I_F		50	mA
Reverse voltage	V_R		5	V
Pulse forward current	I_{FP}	Pulse width: 100 µs Duty ratio: 1 %	0.5	A
Power dissipation	Po		80	mW
Operating temperature	Topr		-25 to +85	°C
Storage temperature	Tstg		-30 to +85	°C
Soldering	-		260 °C, 3 s at least 2.5 mm away from package surface	-

■ Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	L5276			L5586			L6286			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Peak emission wavelength	λp	I_F=20 mA	-	880	-	-	940	-	-	940	-	nm
Spectral half width	Δλ	I_F=20 mA	-	50	-	-	45	-	-	45	-	nm
Forward voltage	V_F	I_F=20 mA	-	1.3	1.6	-	1.25	1.45	-	1.25	1.45	V
Reverse current	I_R	V_R=5 V	-	-	10	-	-	10	-	-	10	µA
Radiant flux	φe	I_F=20 mA	1.0	2.2	-	0.5	-	-	0.8	-	-	mW
Terminal capacitance	Ct	V_R=0 V, f=1 MHz	-	30	-	-	20	-	-	20	-	pF

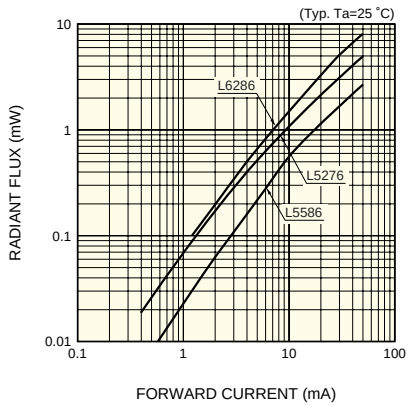
SOLID STATE DIVISION

■ Emission spectrum



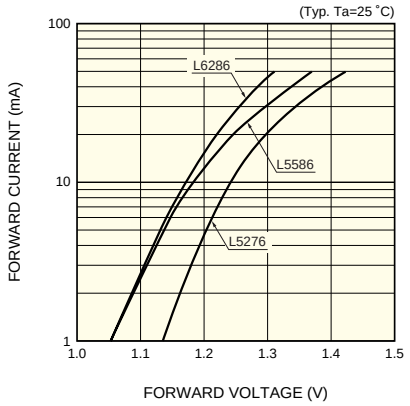
KLEDB0291EA

■ Radiant flux vs. forward current



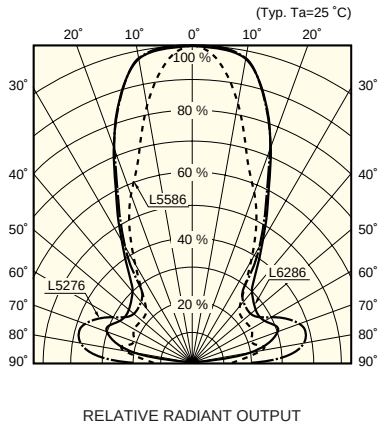
KLEDB0292EA

■ Forward current vs. forward voltage



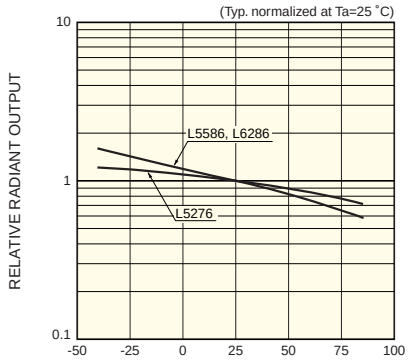
KLEDB0293EA

■ Directivity



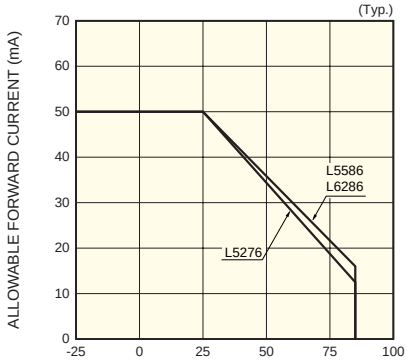
KLEDB0108EA

■ Radiant output vs. ambient temperature



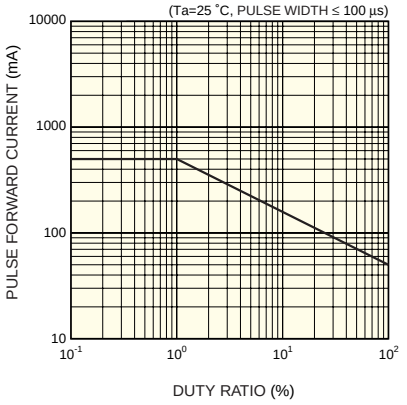
KLEDB0109EA

■ Allowable forward current vs. ambient temperature



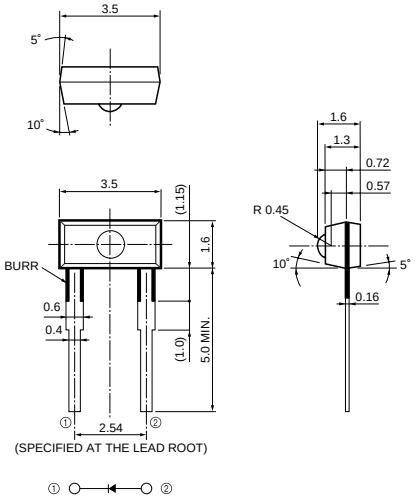
KLEDB0110EA

■ Pulse forward current vs. duty ratio



KLEDB0111EA

■ Dimensional outline (unit: mm)



Shaded area indicates burr.
Tolerance unless otherwise noted: ±0.2, ±2˚
Values in parentheses are not guaranteed, but for reference.

KLEDA0023EA

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