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Mid-Infrared Light Emitting Diode

1,71 - 1,76 μm

Lms17LED series

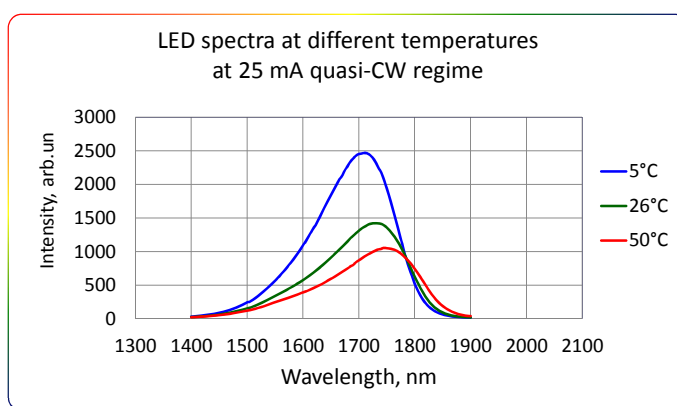
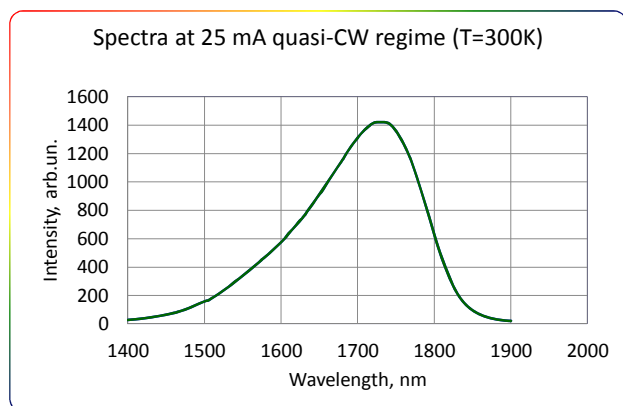
Parameters	Units	Conditions	Ratings		
			Min	Typ	Max
Peak emission wavelength	μm	T=300 K, $I_f = 25$ mA quasi-CW (50% duty cycle), $f=0,5$ kHz	1,71	1,73	1,76
FWHM of the emission band	nm		150	170	250
Forward Voltage	V	T=300 K, 100 mA quasi-CW (50% duty cycle), $f=0,5$ kHz	0,5		1,0
Radiant power	mW	T=300 K, $I_f = 25$ mA quasi-CW (50% duty cycle), $f=0,5$ kHz	1,5		2,5
Radiant power	mW	T=300 K, $I_f = 100$ mA quasi-CW (50% duty cycle), $f=0,5$ kHz	5,5		7,5
Maximum current in DC mode	mA	T=300 K, $f=0$			100
Maximum current in quasi-CW (duty cycle 50%) mode	mA	T=300 K, $f=0,5$ kHz			200
Switching time (t_r, t_f)	ns	$I_f = 20$ mA DC		25;45	



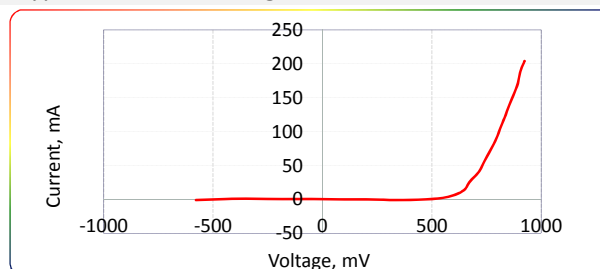
Packages

	Model
TO-18 with a cap with a glass window	Lms17LED
TO-18 with a parabolic reflector without a window	Lms17LED-R
TO-18 with a parabolic reflector with a quartz window	Lms17LED-RW
TO-5 with a built-in thermocooler and thermoresistor, covered by a cap with a quartz window	Lms17LED-TEM
TO-5 with a built-in thermocooler and thermoresistor, covered by a parabolic reflector with a quartz window	Lms17LED-TEM-R
SMD 5x5 mm	Lms17LED-CS5

Spectra at 25 mA quasi-CW regime (T=300K)

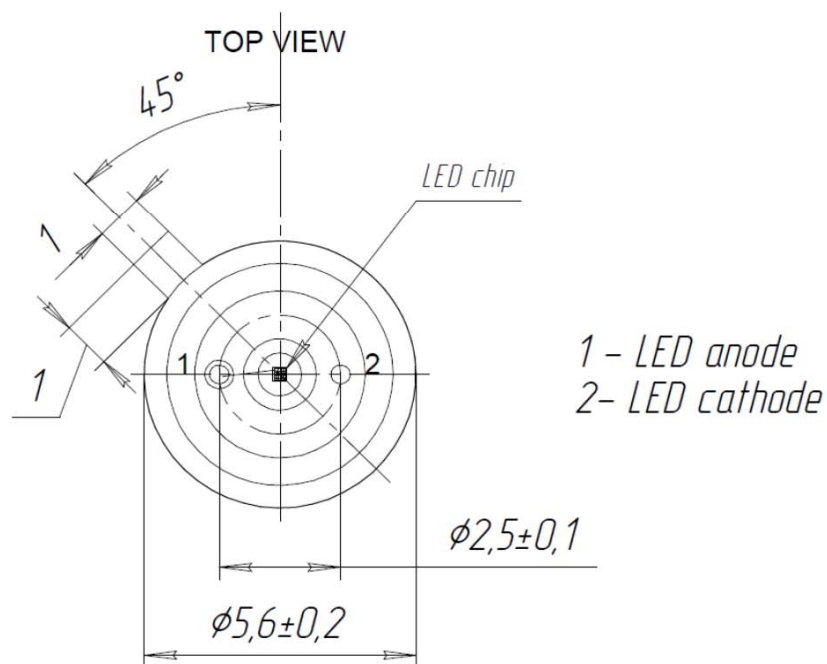
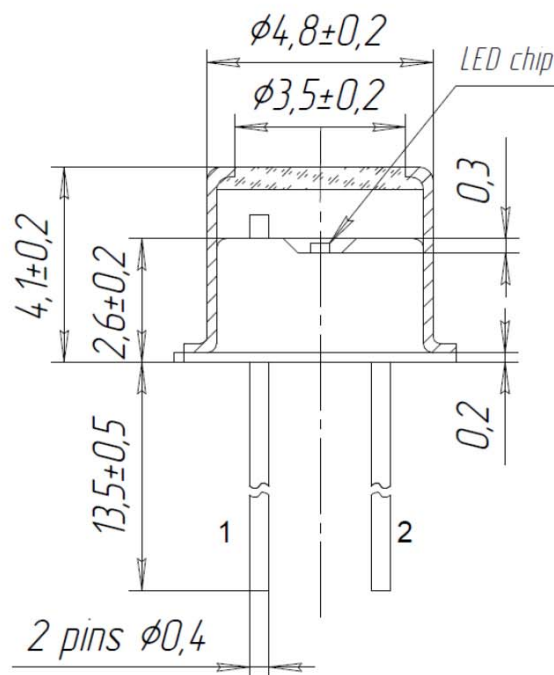


LED Typical Current-Voltage Characteristics (T=300K)

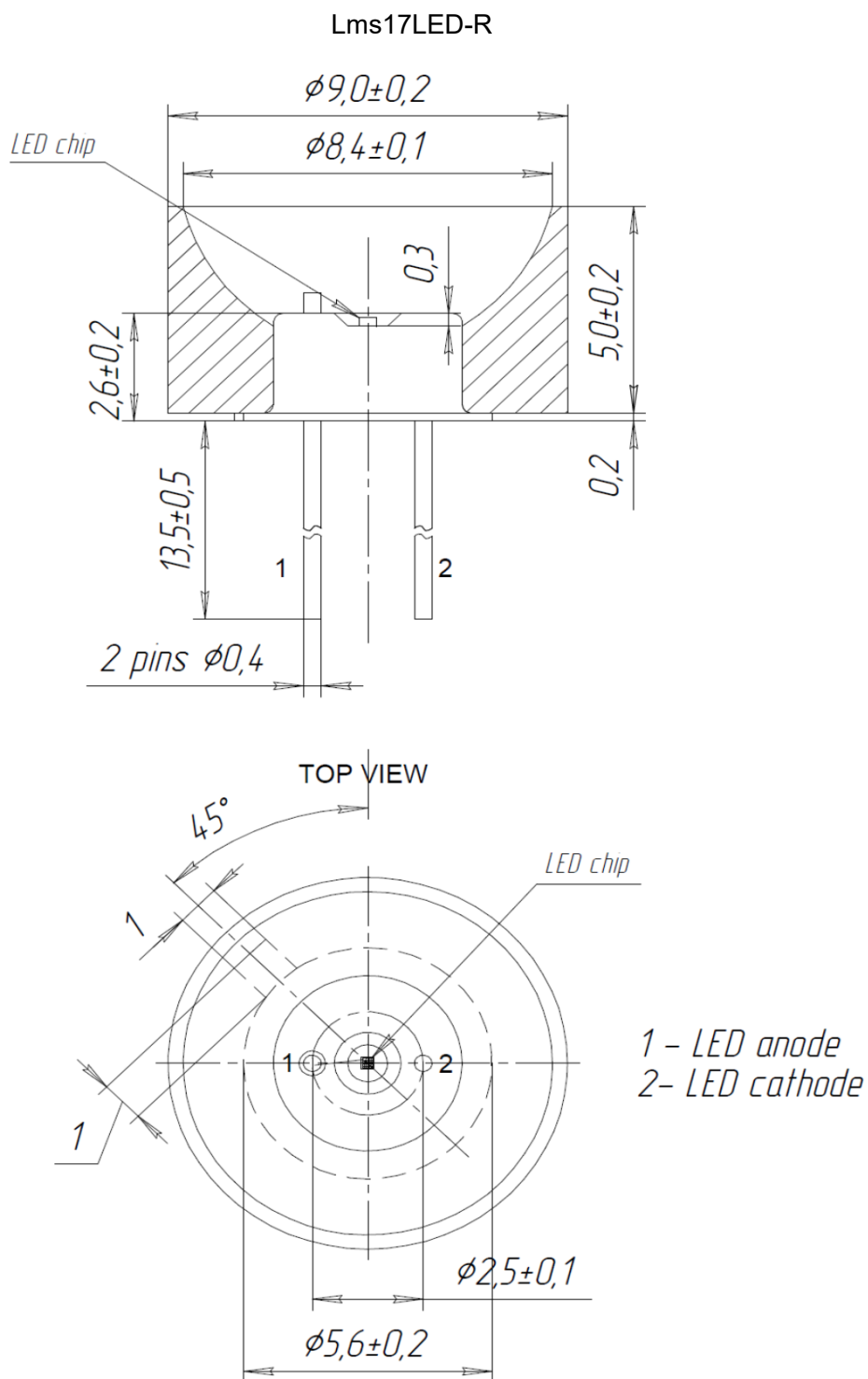


Technical Drawings

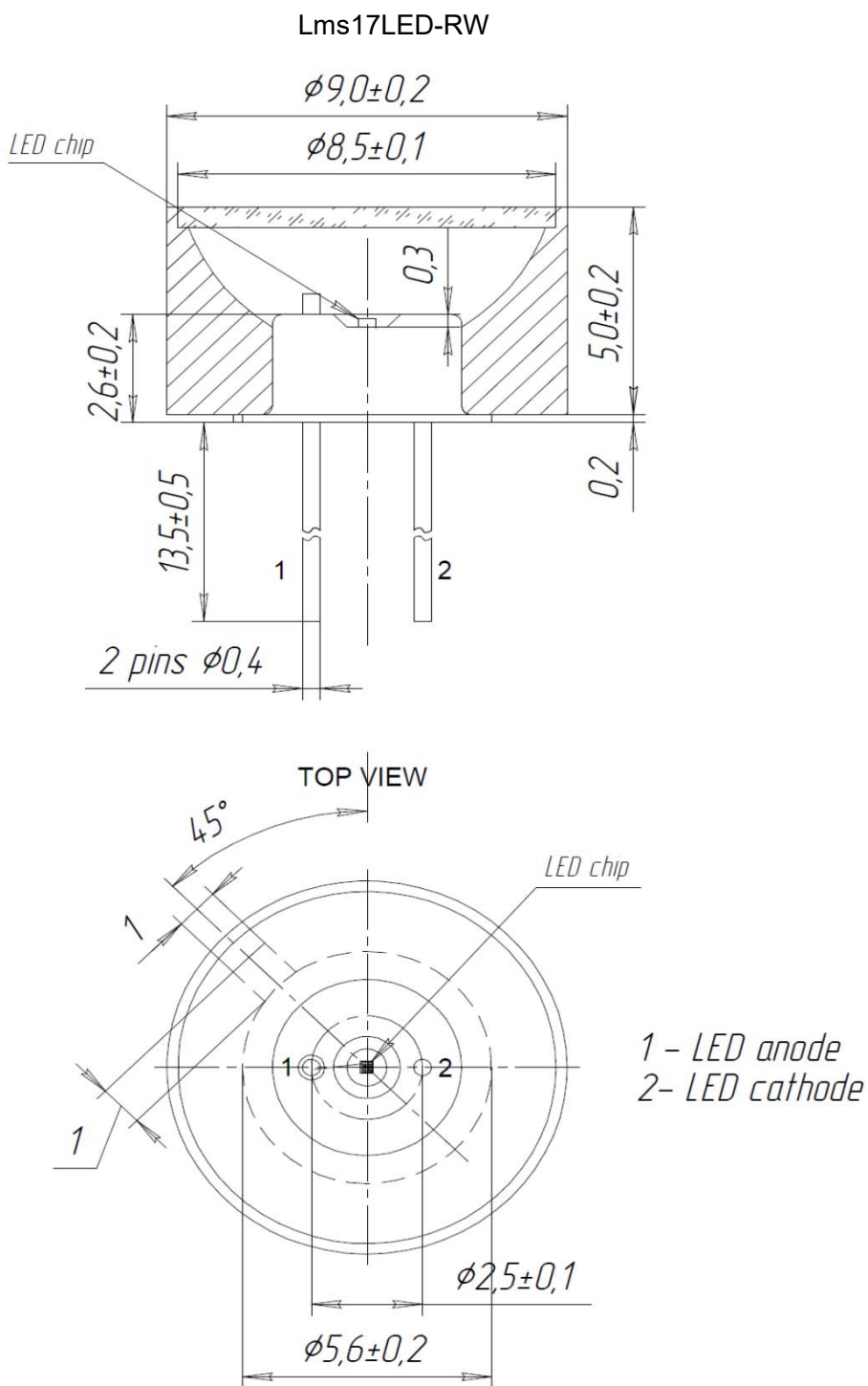
Lms17LED



Technical Drawings

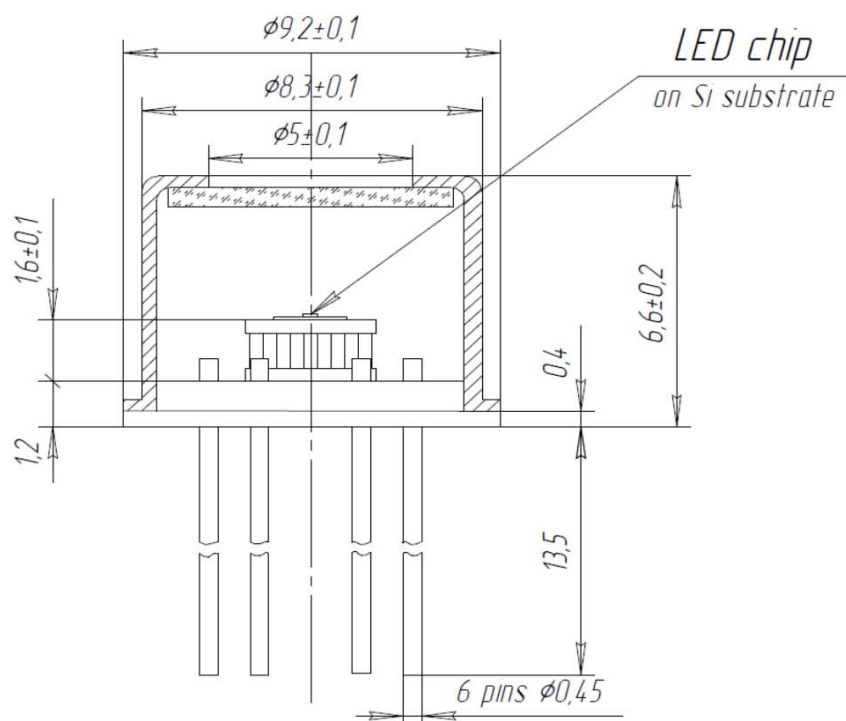


Technical Drawings

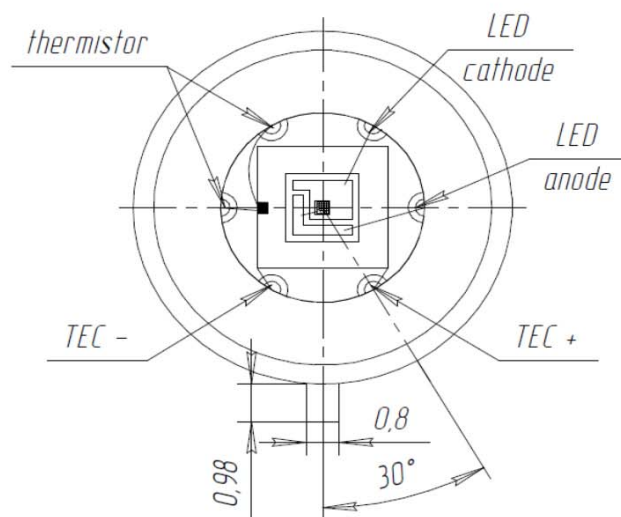


Technical Drawings

Lms17LED-TEM

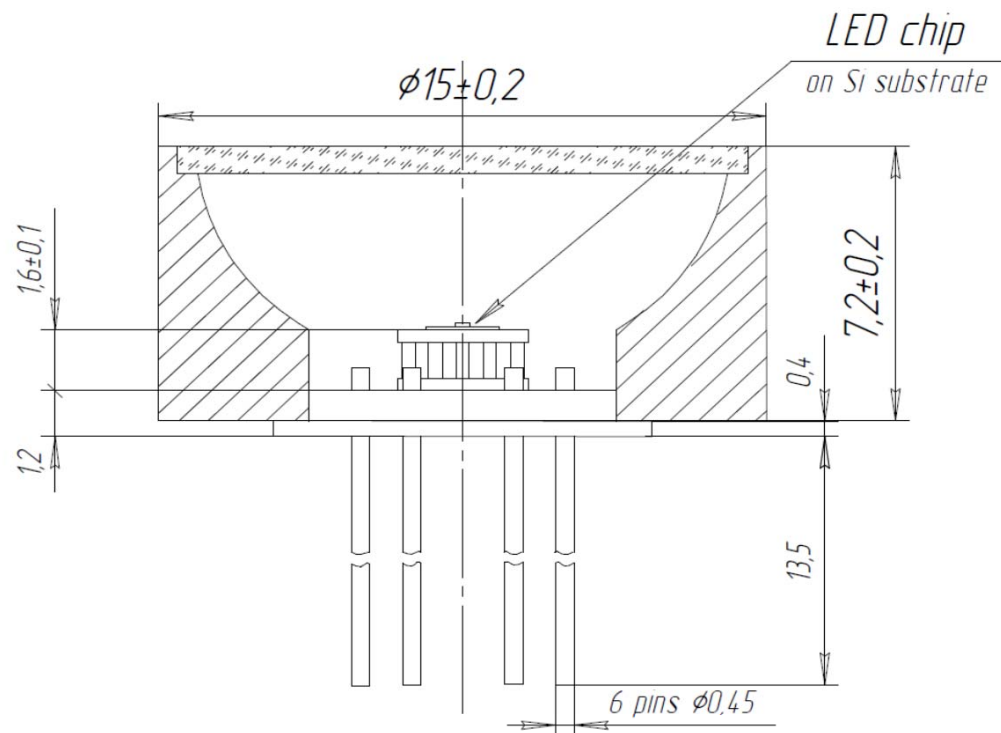


TOP VIEW

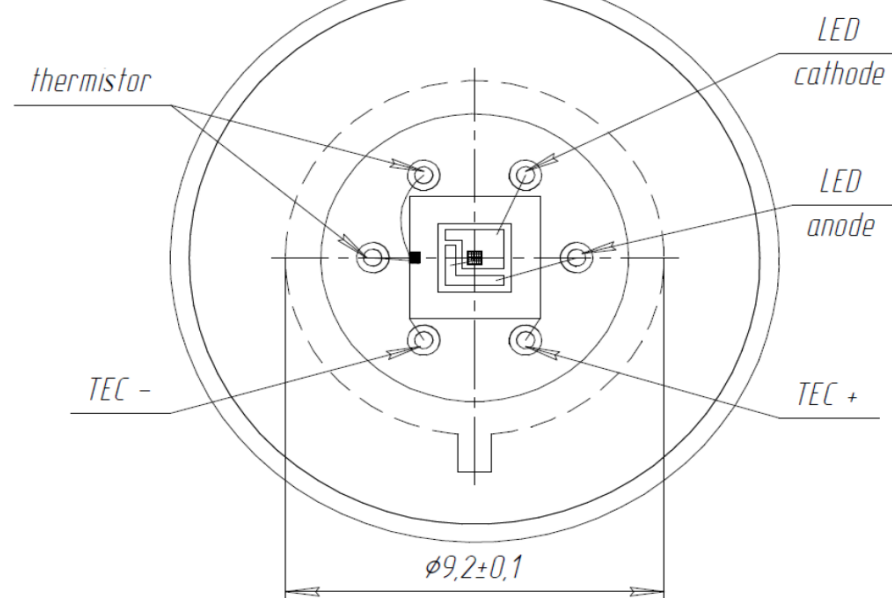


Technical Drawings

Lms17LED-TEM-R



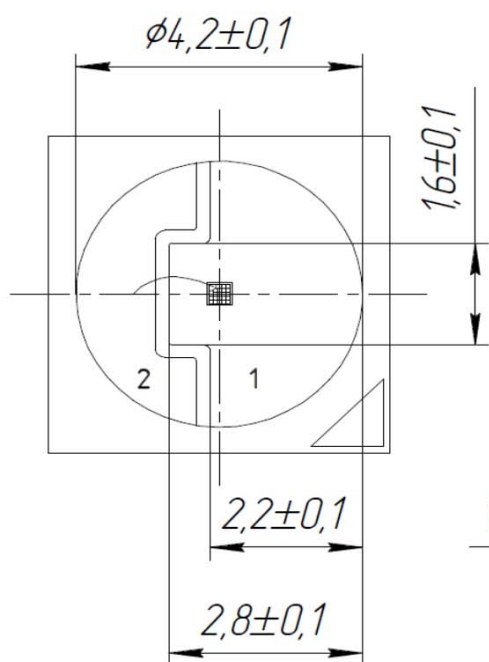
TOP VIEW



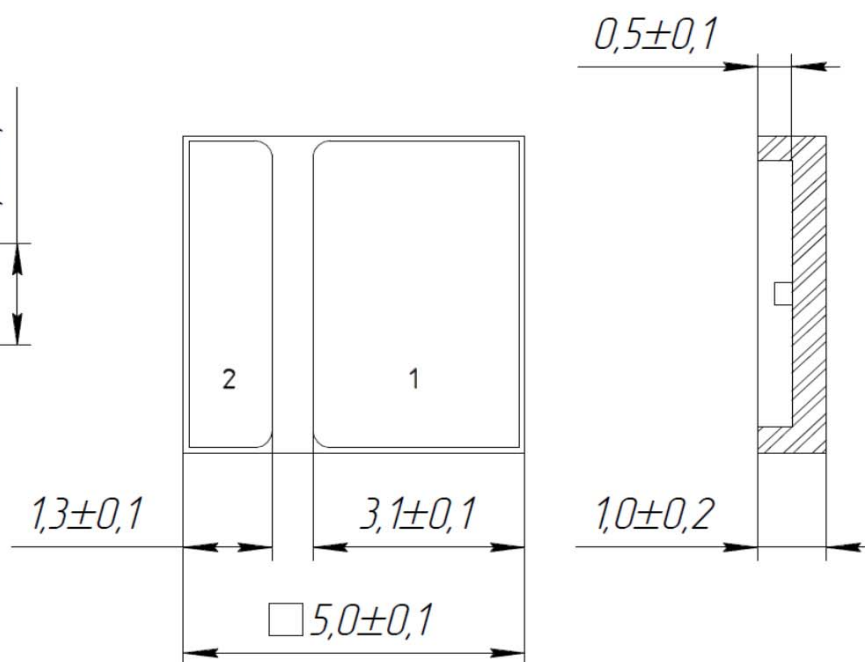
Technical Drawings

Lms17LED-CS5

TOP VIEW



BOTTOM VIEW



1 - LED cathode
2 - LED anode