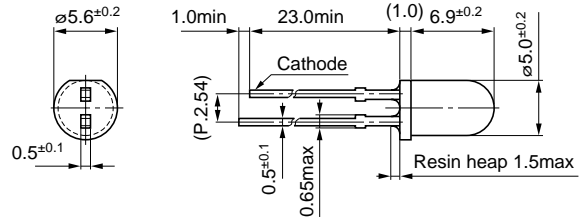


# Infrared LEDs

## ■SID1010CXM series (Wide viewing angle)



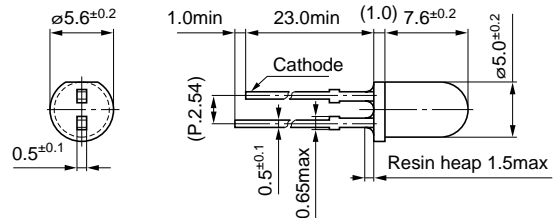
Outline drawing (A)



## ■SID1010CM series (Narrow viewing angle)



Outline drawing (B)

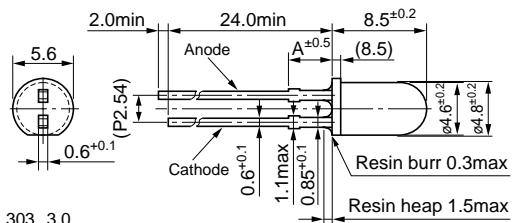


■External dimensions: Unit: mm Tolerance:  $\pm 0.3$

## ■SID300/1003 series (For remote control)



Outline drawing (C)



A dimension	SID 303	3.0
	SID 307	4.2
	SID 313	3.6
	SID1003	3.6

■External dimensions: Unit: mm Tolerance:  $\pm 0.3$

**Absolute maximum ratings (Ta=25°C)**

Symbol	Unit	Ratings
P <sub>D</sub>	mW	150
I <sub>F</sub>	mA	100
ΔI <sub>F</sub>	mA/°C	-1.33 (above 25°C)
I <sub>FP</sub>	mA	1,000 (f = 1kHz, TW ≤ 10μs)
V <sub>R</sub>	V	5
Top	°C	-30 to +85
Tstg	°C	-30 to +100

Type No.	Electro-optical characteristics (Ta=25°C)									Outline drawing	
	V <sub>F</sub> (V)		Condition I <sub>F</sub> (mA)	I <sub>R</sub> (μA)	Condition V <sub>R</sub> (V)	I <sub>e</sub> (mW/sr)		λ <sub>p</sub> (nm)	Δλ (nm)		
	typ	max				min	Condition (Constant voltage)				
SID1010CXM (Wide viewing angle)	1.25	1.5	50	10	5	40	V <sub>CC</sub> =3V Resistor R=2.2Ω	940	45	Ⓐ	
SID1010CM (Narrow viewing angle)						85				Ⓑ	
SID1K10CXM (High power output, wide viewing angle)	1.20	1.5	50	10	5	75	V <sub>CC</sub> =3V Resistor R=2.2Ω	940	45	Ⓐ	
SID1K10CM (High power output, narrow viewing angle)						140				Ⓑ	
SID303C (Wide viewing angle)	1.25	1.4	50	10	5	100	V <sub>CC</sub> =3V Resistor R=2.2Ω	940	50	Ⓒ	
SID303BR (Wide viewing angle)						220					
SID303BS (Wide viewing angle)											210
SID307BR (Narrow viewing angle)											
SID313BP (Narrow viewing angle)											
SID1003BQ (High power output)	1.45										

**■For data communication**

Type No.	Electro-optical characteristics (Ta=25°C)										Outline drawing	
	V <sub>F</sub> (V)		Condition I <sub>F</sub> (mA)	I <sub>R</sub> (μA)	Condition V <sub>R</sub> (V)	I <sub>e</sub> (mW/sr)		t <sub>ON, OFF</sub> (ns)		λ <sub>p</sub> (nm)		Δλ (nm)
	typ	max				typ	Condition I <sub>F</sub> (mA)	typ	Condition I <sub>F</sub> (mA)			
SID1G10CM (Ultra-high power output)	1.5	1.8	50	100	3	30	50	30	30	850	40	Ⓑ
SID1F10CM (For high frequency)	1.5	1.8	50	100	3	25	50	10	30	850	40	Ⓑ