

Absolute Maximum Rating

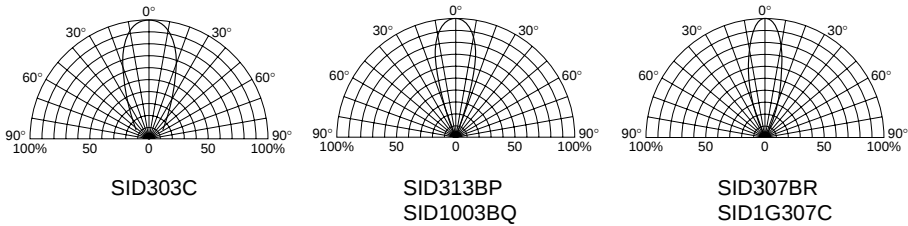
Parameter	Unit	Ratings	Conditions
IF	mA	100	
ΔIF	mA/°C	−1.33	25°C or higher
IFP	mA	1000	f=1kHz, tw≤10 μs
VR	V	5	
Top	°C	−30 to +85	
Tstg	°C	−30 to +100	

5φ Round Infrared LEDs

SID300/1003 Series

Part Number	Lens Color	Forward Voltage		Radiant Intensity		Peak Wavelength		Spectrum Half Bandwidth		Chip Material	Remark (Dimension A)
		V _F (V) TYP	Conditions IF (mA) MAX	I _e (mW/sr) TYP	Conditions	λ _P (nm) TYP	Conditions IF (mA)	Δλ (nm) TYP	Conditions IF (mA)		
SID303C	Water clear	1.3	1.5	50	80 (Constant voltage) V _{cc} =3V, R=2.2Ω	940	50	50	50	GaAs	3.0±0.5
SID313BP	Transparent light violet	1.3	1.5	50	130 (Constant voltage) V _{cc} =3V, R=2.2Ω	940	50	50	50	GaAs	3.6±0.5
SID1003BQ	Transparent light deep blue	1.3	1.5	50	180 (Constant voltage) V _{cc} =3V, R=2.2Ω	940	50	50	50	GaAs	3.6±0.5
SID307BR	Transparent deep blue	1.3	1.5	50	200 (Constant voltage) V _{cc} =3V, R=2.2Ω	940	50	50	50	GaAs	4.2±0.5
SID1G307C	Water clear	1.5	1.8	50	50 IF=50mA	850	50	40	50	GaAlAs	4.2±0.5
SID1G313C	Water clear	1.5	1.8	50	30 IF=50mA	850	50	40	50	GaAlAs	3.6±0.5

Directional Characteristics (representative example)



External Dimensions (Unit: mm)

