

## 5-2 Infrared LEDs

### Absolute Maximum Rating

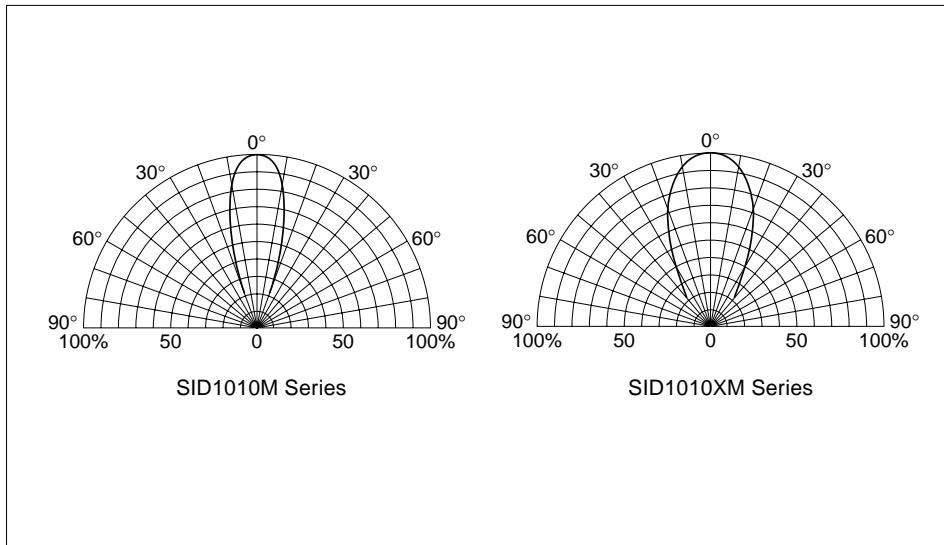
Parameter	Unit	Ratings	Conditions
IF	mA	100	
$\Delta$ IF	mA/°C	-1.33	25°C or higher
IFP	mA	1000	f=1kHz, tw≤10μs
VR	V	5	
Top	°C	-30 to +85	
Tstg	°C	-30 to +100	

### 5φ Round Infrared LEDs

#### SID1010M Series

Part Number	Lens Color	Forward Voltage		Conditions IF (mA)	Ie (mW/sr) TYP	Radiant Intensity Conditions	Peak Wavelength		Spectrum Half Bandwidth		Chip Material	Remark (Dimension A)
		VF (V) TYP	MAX				$\lambda$ P (nm) TYP	Conditions IF (mA)	$\Delta\lambda$ (nm) TYP	Conditions IF (mA)		
SID1010CM	Water clear	1.3	1.5	50	130	(Constant voltage) Vcc=3V, R=2.2Ω	940	50	50	50	GaAs	7.6±0.2
SID1K10CM	Water clear	1.3	1.5	50	200	(Constant voltage) Vcc=3V, R=2.2Ω	940	50	50	50	GaAs	7.6±0.2
SID1010CXM	Water clear	1.3	1.5	50	80	(Constant voltage) Vcc=3V, R=2.2Ω	940	50	50	50	GaAs	6.9±0.2
SID1K10CXM	Water clear	1.3	1.5	50	110	(Constant voltage) Vcc=3V, R=2.2Ω	940	50	50	50	GaAs	6.9±0.2

#### Directional Characteristics (representative example)



#### External Dimensions

(Unit: mm)

