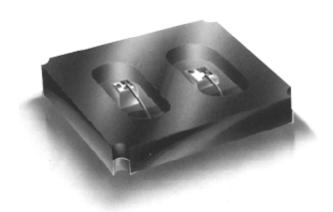
CERLED®

Ceramic Chip SMD

SMD - Reflective Sensor CRS 20

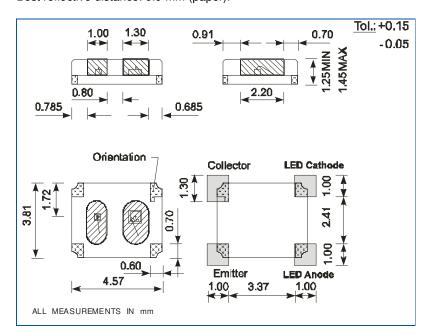




Description

This opto device is specially designed for all applications where the space is very limited and a highly reliable product is needed. Especially for hybrid and SMT.

The solder pads are a very good heat sink, so that high power dissipation is achievable. Best reflective distance: 0.9 mm (paper).



Features and Benefits

- Surface mounting device
- Complete ceramic housing
- ➤ High temperature range
- Miniature size
- Solder pads conform with Mil-Std. 883 B



Maximum Ratings at 25°C

Total power dissipation	P _V	200 mW
Storage temperature	T _{stg}	-25°C to 125°C
Operating temperature	T _{op}	-25° C to 85° C
Soldering temperature	T _{sold} (10 s)	240° C

Note: During solder process the component must not be held or fixed mechanically on the upper part.

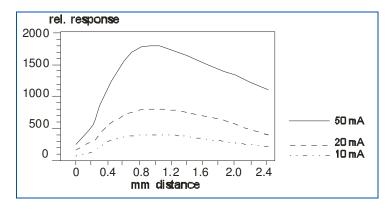
Wavelength	λ	950 nm
Reverse voltage	V_R	5 V
Continuous forward current	I _F	60 mA
Pulse current (10usec)	I _{Peak 10 μsec}	800 mA
Forward voltage	V_{F}	1.2 1.4 V
	1	
	V _{CEO}	40 V (I = 100 μA)
Collector emitter breakdown	V _{CEO} V _{ECO}	40 V (I = 100 μA) 4.5 V (I = 100 μA)
Collector emitter breakdown Emitter collector breakdown		
Detector Collector emitter breakdown Emitter collector breakdown Dark current Saturation voltage	V _{ECO}	4.5 V (I = 100 μA)

Note: according IEC 60825-1 (EN60825):

LED Radiation

Do not view directly with optical instruments.

Figure 1



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