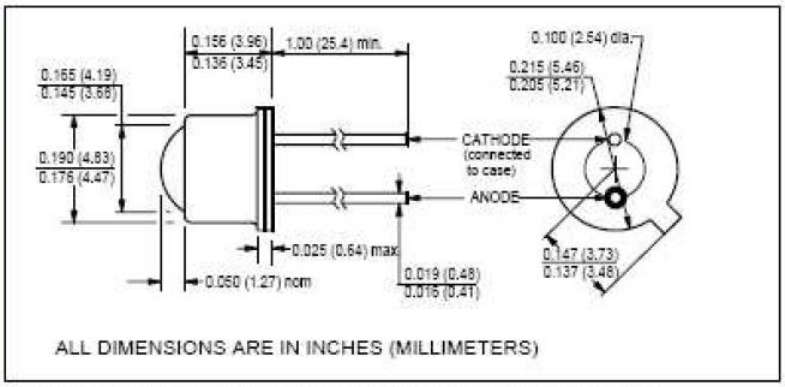
SE-E-536

Description

The SE-E-536 contains a GaN, high Power output, blue LED mounted on a TO-46 header. The TO-46 header provides the thermal environment for reliable operation over a wide temperature range. For additional information, call BS Elektronik Service GmbH.

High Power Blue LED
Dome Lens Can, Hermetically Sealed



features

- Dome lens TO-46 package
- ± 11° emitting angle
- High luminous intensity
- High luminous flux
- cathode connected to case
- RoHS compliant
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absolute maximum ratings (T_A = 25°C unless otherwise stated)

storage temperature	-65°C to +150°C
operating temperature	-65°C to +125°C
lead soldering temperature[1]	260°C
continuous forward current[2]	55mA
reverse voltage	5.0V
peak forward current (1.0ms pulse width, 10% duty cycle)	0.25A
continuous power dissipation[3]	200mW

notes:

1. 0.06" (1.5mm) from the header for 5 seconds maximum.
2. Derate linearly 0.44mA/°C from 25°C free air temperature to T_A = +125°C.
3. Derate linearly 1.60mW/°C from 25°C free air temperature to T_A = +125°C.

electrical characteristics (T_A = 25°C unless otherwise noted)

symbol	parameter	min	typ	max	units	test conditions
I_V	Luminous intensity	-	750	-	mcd	I_F = 20mA
Φ_V	Luminous flux	-	87.5	-	mlm	I_F = 20mA
V_F	Forward voltage	-	3.2	3.6	V	I_F = 20mA
I_R	Reverse current	-	-	10	µA	V_R = 5.0V
Θ_{HP}	Emission angle at half power points	-	22	-	deg.	I_F = 20mA
λ_P	Peak Wavelength	460	465	470	nm	I_F = 20mA