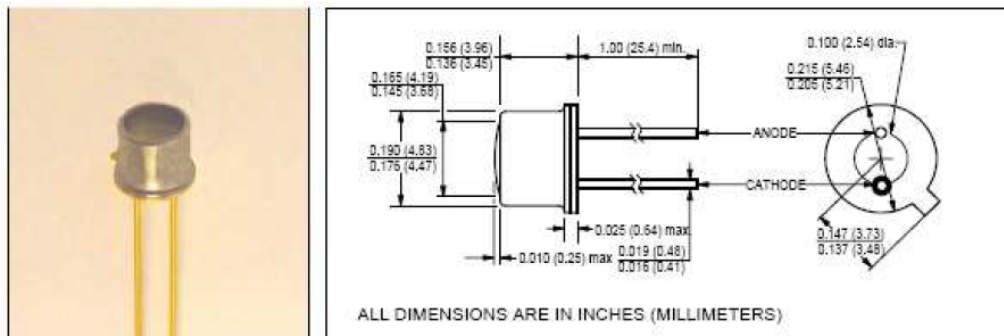


SE-E-435W

Description

The SE-E-435W is a high speed, GaAsP light emitting diode. The TO-46 header provides the thermal environment for reliable operation over an extremely wide temperature range. Call BS Elektronik Service GmbH for applications assistance.

**Red LED, Gallium Arsenide Phosphide
Flat Window Can, Hermetically Sealed**



features

- high power output
- 660nm wavelength
- TO-46 hermetic package
- RoHS compliant

absolute maximum ratings ($T_A = 25^\circ\text{C}$ unless otherwise stated)

storage temperature.....	-85°C to +150°C
operating temperature.....	-55°C to +125°C
lead soldering temperature ⁽¹⁾	280°C
continuous forward current ⁽²⁾	80mA
peak forward current (1.0ms pulse width, 10% duty cycle).....	1A
reverse voltage.....	5V
continuous power dissipation ⁽³⁾	200mW

notes:

1. 0.06" (1.5mm) from the header for 5 seconds maximum.
2. Derate linearly 0.48mA/°C from 25°C free air temperature to $T_A = +125^\circ\text{C}$.
3. Derate linearly 1.60mW/°C from 25°C free air temperature to $T_A = +125^\circ\text{C}$.

electrical characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)						
symbol	parameter	min	typ	max	units	test conditions
Φ_V	Luminous flux	-	72	-	mlm	$I_F = 20\text{mA}$
V_F	Forward voltage	-	1.8	2.4	V	$I_F = 20\text{mA}$
I_R	Reverse current	-	-	10	μA	$V_R = 5.0\text{V}$
λ_P	Peak emission wavelength	650	660	670	nm	$I_F = 20\text{mA}$
Θ_{HP}	Emission angle at half power points	-	70	-	deg.	$I_F = 20\text{mA}$
t_r, t_f	Radiation rise and fall time	-	70	-	ns	$I_{F(PK)} = 50\text{mA}$, $f = 1\text{kHz}$, Duty Cycle = 50%