

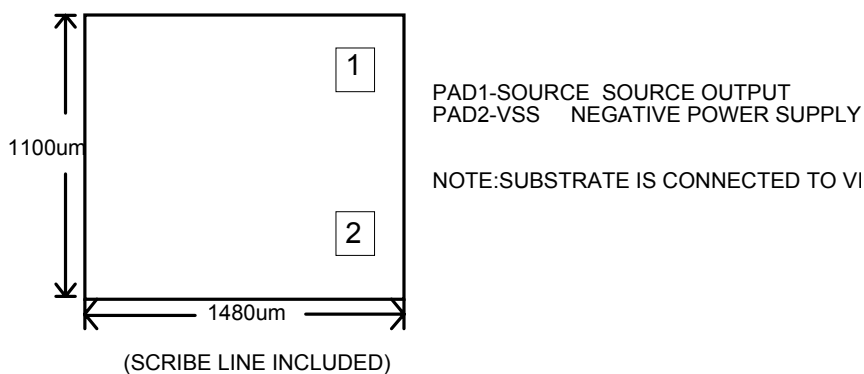
OTC-091

LOW BATTERY DETECTOR WITH BLINKING LED DRIVER

● Features

- * CMOS technology
- * Designed for bonding with LED chip
- * Input voltage range: 2V-10V DC
- * Low standby current: $5\mu A$ for $V_{IN}=3V$
- * Blinking frequency: $1.6Hz\pm 20\%$
- * Blinking duty cycle: 1/16
- * Can detect two 1.5V batteries without any external parts
- * Build-in detection voltage hysteresis design
- * With source blinking led driver to indicate low-battery condition

● Pad assignment & description



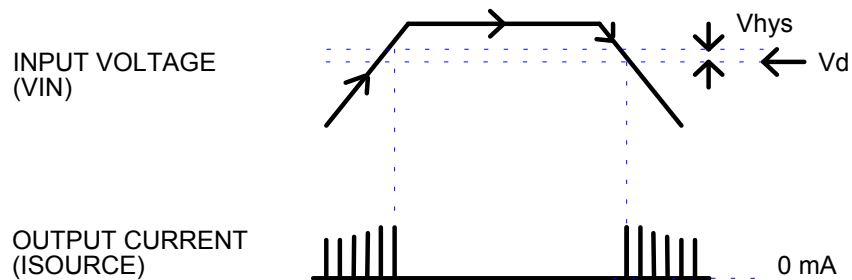
● Ordering informations

Part no.	Package	Note
OTC-091	-	Chip form
OTC-091A	2 Lead red diffused type(ϕ)	Bonding with ED-211SRD LED chip wavelength λ_p (typ) 660nm , Intensity (6mA), I_v (minimum) 3mcd
OTC-091B	2 Lead red diffused type(ϕ)	Bonding with ED-211SRD LED chip wavelength λ_p (typ) 660nm , Intensity (6mA), I_v (minimum) 3mcd

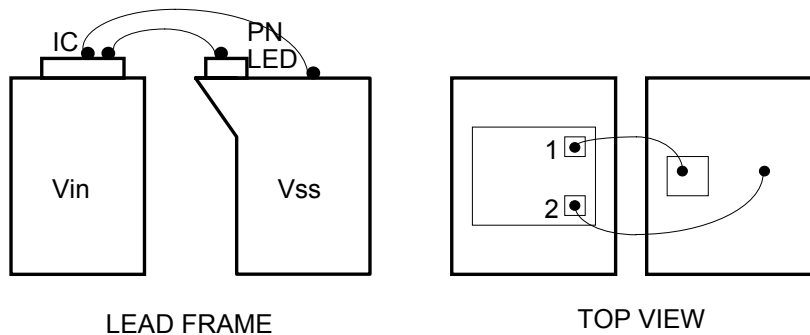
- Electrical characteristics

Ta = 25°C, V _{IN} = 3V (Unless otherwise specified)						
Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Input voltage	V _{IN}		2	3	10	V
Standby current	I _{IN}			5		μA
Detection voltage	V _D		2.35	2.5	2.65	V
Hysteresis voltage	V _{hys}			100		mV
Blinking frequency	F _{BLK}		1.2	1.6	2	Hz
Output source current	I _{SOURCE}	V _{IN} = 2.3V		6		mA

- Function description



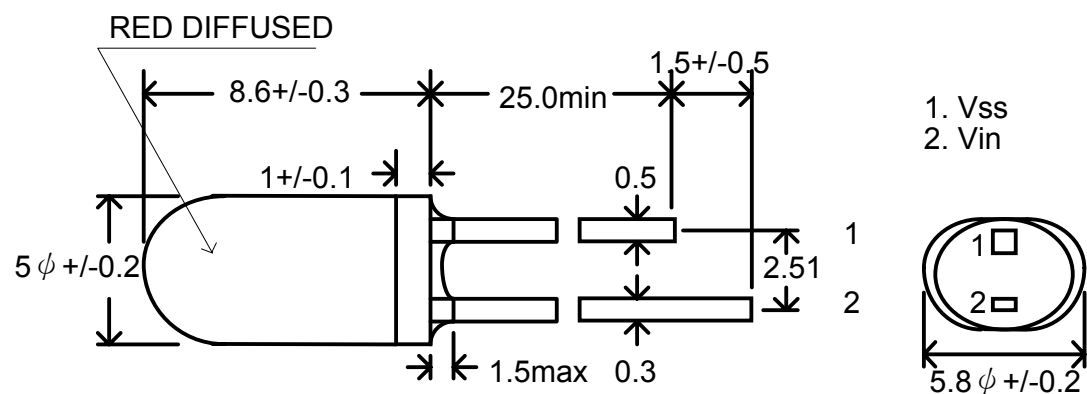
- Bonding with LED chip



PACKAGE DIMENSIONS

● OTC-091A

(UNIT: mm)



● OTC-091B

1. V_{SS}
2. V_{IN}

