The PL06B series is a two terminal LED protector with low dropout voltage rated for max 400mA bypass current. Low operation current at monitoring mode and high bypass current capability at triggered mode. Build-in reverse diode for bypass reversed supply voltage.The PL06B series is designed for parallel connection with power LED. It bypasses LED driving current when LED at open circuit condition. It also bypasses LED driving current at reverse connected driving current to LED.

Features

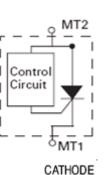
- RoHS compliant
- Automatically reset after power cycle
- Off-state current : Ir = 5uA max
- On-state Voltage: Vt=1 max
- AEC-Q101 qualified (Automotive grade with suffix "Q".)
- Exsemi technology

Main applications

- LED Lighting
- LED backlight for LCD TV/ Monitor
- High Power LED Protection



SOD-123



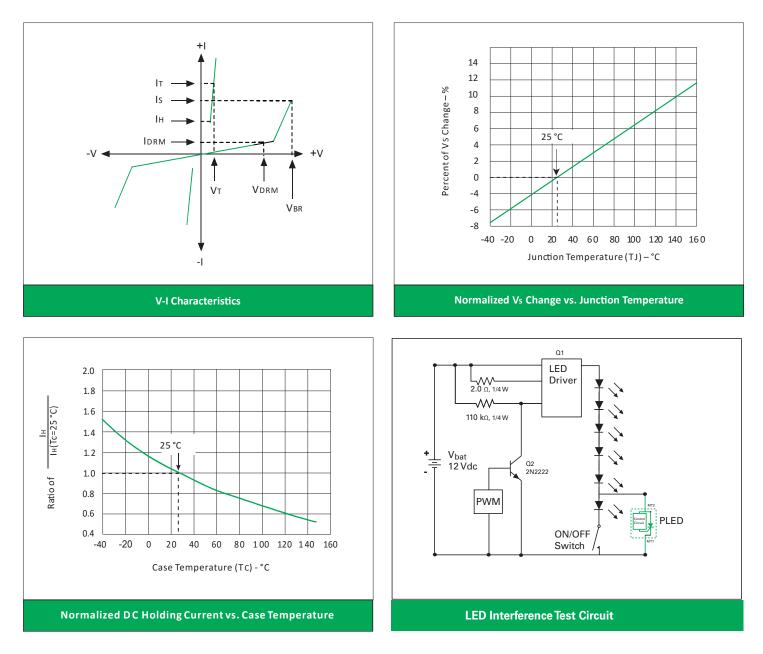
PL06B Electrical Ch aracteristics (TA=25°C)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Stand-off voltage	Vrm	I=1m A	5.5			V
Switching Voltage	V _{BO}	measured at I_{BO}			15	V
Breakover current	I _{BO}	measured at $V_{\mbox{\scriptsize BO}}$		100		m A
Off-state current	Irm	Vrm=5V			5	u A
Holding current	I _H			50		m A
On-state Voltage	VT	IT=1A			3	V
On-state Current	Ι _Τ				400	m A

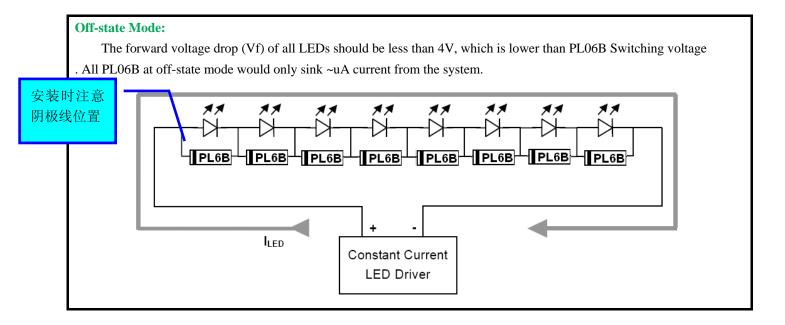
Absolute Ratings (TA=25°C)

Symbol	Parameter	Value	Unit
Ts	Storage temperature range		°C
Тј	Maximum junction temperature	150	°C
Iτ	Minimum On-State Current, (TA = 25° C),	400	mA



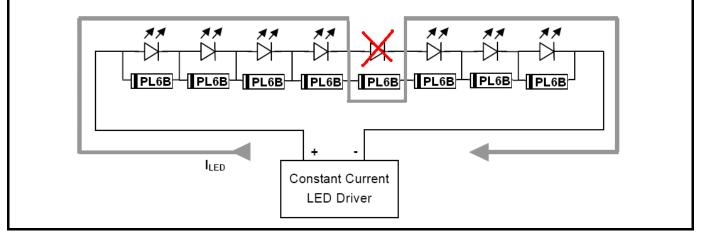


APPLICATION INFORMATION



On-state Mode:

Any LED may become open circuit because of LED damage or wiring problem. When it happens, the voltage drop across adjacent PL06B stats to increase, and then PL06B will be turn on when the voltage drop reaches V_{B0}. The dropout voltage on PL06B will bearound 1V and the LED current ILED will be bypassed to next LED. All LEDs will work well except the abnormal LED bypassed.



ORDERING INFORMATION

Device	Package	Shipping
PL06B	SOD-123	3000 / Tape & Reel

PACKAGE DIMENSIONS

