Expsemi PL06BH

Design for LED open circuit protection

The PL06BH series is a two terminal LED protector with low dropout voltage rated for max 1000mA 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 PL06BH 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
- IEC-61000-4-2 ESD 30kv(Air),30kv(Contact)
- AEC-Q101 qualified (Automotive grade with suffix "Q".)
- Exsemi technology





SOD-123

Main applications

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

Electrical Characteristics (TA=25°C)

Part Number	V _{DRM} breakdown	Idrm	V _{BR} breakdown	Is	VT	IT	`IH	Critical rate ofrisedV/dt
	Min.	Max.	Max.	Max.	Max.	Max.	Min.	Max.
	V	uA	V	mA	V	A	mA	v
PL06BH	5.5	10	12	800	1.5	1	5	250V/µs

Electrical Parameters (TA=25°C)

Symbol	Parameter	Symbol	Parameter
Vdrm	Stand-off voltage,is measured at Idrm	Ін	Holding current
Idrm	Leakage current,is measured at VDRM	Iт	ON-state current
VBR	Breakover voltage,is measured at 100V/µs	VT	On-state voltage
Is	Breadover current		

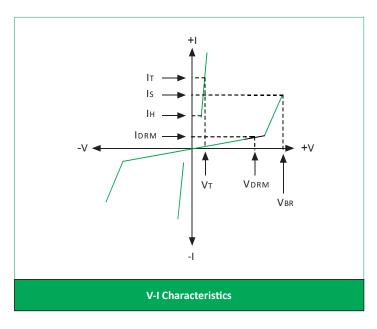
Expsemi PL06BH

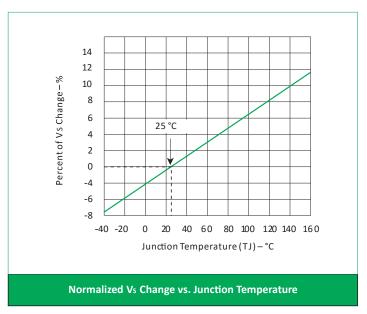
Design for LED open circuit protection

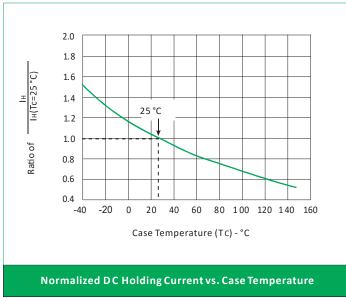
Absolute Ratings (TA=25°C)

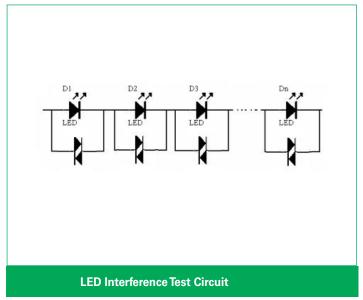
Symbol	Parameter	Value	Unit
Ts	Storage temperature range	-40 to +150	$^{\circ}$
Tj	Maximum junction temperature	150	$^{\circ}$
lτ	Minimum On-State Current, (TA = 25° C),	1000	mA

Ratings and Characteristic Curves (T_A=25 [∞] unless otherwise noted)









Expsemi PL06BH

Design for LED open circuit protection

ORDERING INFORMATION

Device	Package	Shipping	
PL06BH SOD-123 F L		3000 / Tape & Reel	

PACKAGE DIMENSIONS

