


## Safest APD Bias Supply 12-Pin TQFN EP Tube

<b>Manufacturer:</b>	<a href="#">Maxim Integrated</a>
<b>Package/Case:</b>	QFN12
<b>Product Type:</b>	Power Management ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The MAX1932 generates a low-noise, high-voltage output to bias avalanche photodiodes (APDs) in optical receivers. Very low output ripple and noise is achieved by a constant-frequency, pulse-width modulated (PWM) boost topology combined with a unique architecture that maintains regulation with an optional RC or LC post filter inside its feedback loop. A precision reference and error amplifier maintain 0.5% output voltage accuracy. The MAX1932 protects expensive APDs against adverse operating conditions while providing optimal bias. Traditional boost converters measure switch current for protection, whereas the MAX1932 integrates accurate high-side current limiting to protect APDs under avalanche conditions. A current-limit flag allows easy calibration of the APD operating point by indicating the precise point of avalanche breakdown. The MAX1932 control scheme prevents output overshoot and undershoot to provide safe APD operation without data loss.

### Application

Applications

Fiber Optic Network Equipment

Laser Range Finders

Optical Receivers and Modules

PIN Diode Bias Supply

Telecom Equipment

### Recommended For You

**MAX1636EAP**

Maxim Integrated  
SSOP20

**MAX1758EAI+**

Maxim Integrated  
SSOP28

**MAX1673ESA+**

Maxim Integrated  
SOP8

**MAX1682EUK+T**

Maxim Integrated  
SOT23-5

**MAX1720EUT+T**

Maxim Integrated  
SOT23-6

**MAX845ESA+T**

Maxim Integrated  
SOP-8

**MAX1681ESA+**

Maxim Integrated  
SOP-8

**MAX17113EIL+**

Maxim Integrated  
QFN

**MAX690CPA+**

Maxim Integrated  
DIP8

**MAX690MJA**

Maxim Integrated  
CDIP8

**MAX6107EUR+T**

Maxim Integrated  
SOT23-3

**MAX5920BESA+**

Maxim Integrated  
SOP-8

**MAX5922AEUI+**

Maxim Integrated  
TSSOP28

**MAX5900ABETT+T**

Maxim Integrated  
TDFN-6

**MAX5903LBEUT**

Maxim Integrated  
SOT23-6