SM74611KTTR Texas Instruments

XT-ShenZhen is China supplier who mainly produces SM74611KTTR Texas Instruments with many years of experience. SM74611KTTR Texas Instruments is a smart bypass diode designed and produced by Texas Instruments (TI), one of the world's largest manufacturers of electronic components, for photovoltaic applications. The diode provides an additional wire string current path for some PV panels that are obscured during normal operation. Typical power consumption is much lower than that of conventional Schottky diodes. In terms of performance, it is currently the top electronic component in the field. For more low-power electronic components, please contact us!!! You can rest assured to buy product from XT-ShenZhen®. We look forward to cooperating with you, if you want to know more, you can consult us now, we will reply to you in time!

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Product description

The SM74611KTTR Texas Instruments is a smart bypass diode for photovoltaic applications. Its role is to provide an alternate path for string current when coloring the panel during normal operation. Without a bypass diode, a hot spot will appear in the shadow battery, which is caused by excessive power dissipation in the reverse bias battery. Currently, conventional P-N junction diodes or Schottky diodes are used to alleviate this problem, and the forward voltage drop is still considered high (0.6V for ordinary diodes). , 0.4V for Schottky). When 10A of current flows through these diodes, the power dissipation can be as high as 6W. This, in turn, increases the temperature inside the junction box where these diodes are usually located and reduces the reliability of the module. The advantage of the SM74611KTTR Texas Instruments is that it has a lower forward voltage drop than the PN junction and Schottky diode. At 8A current, the device has a typical

average forward voltage drop of 2 6mV. The power consumption is lower than that of Schottky diodes The leakage current is lower than that of the Schottky diode The footprint and pins are compatible with conventional devices. The working forward current (IF) is up to 15A Low average forward voltage (26mV at 8A) devices with limited built-in ESD protection, During storage or processing, the lead should be shorted or the device placed in a conductive foam to prevent electrostatic damage to the MOS gate.

Product features

- Minimum Reverse Voltage (VR): 30V
- Forward Operating Current (IF): Up to 15A.
- Low average forward voltage: 26mV at 8A.
- Lower power consumption than Schottky diodes.
- Leakage current is lower than That of Schottky diodes
- Compatible with traditional D2PAK Schottky diode packages and pins

Product parameters

Technical parameters	Supply voltage (DC).	28.0V (max)
	Input voltage (DC).	30.0V
	Forward voltage	26mV@8A
	Dissipated power	695mW
	Forward current	15000mA
	Operating Temperature (Max)	125℃
	Operating Temperature(Min)	-40℃
	Number of pins	3
	encapsulation	YO-263-3
	Packaging	Tape & Reel (TR)

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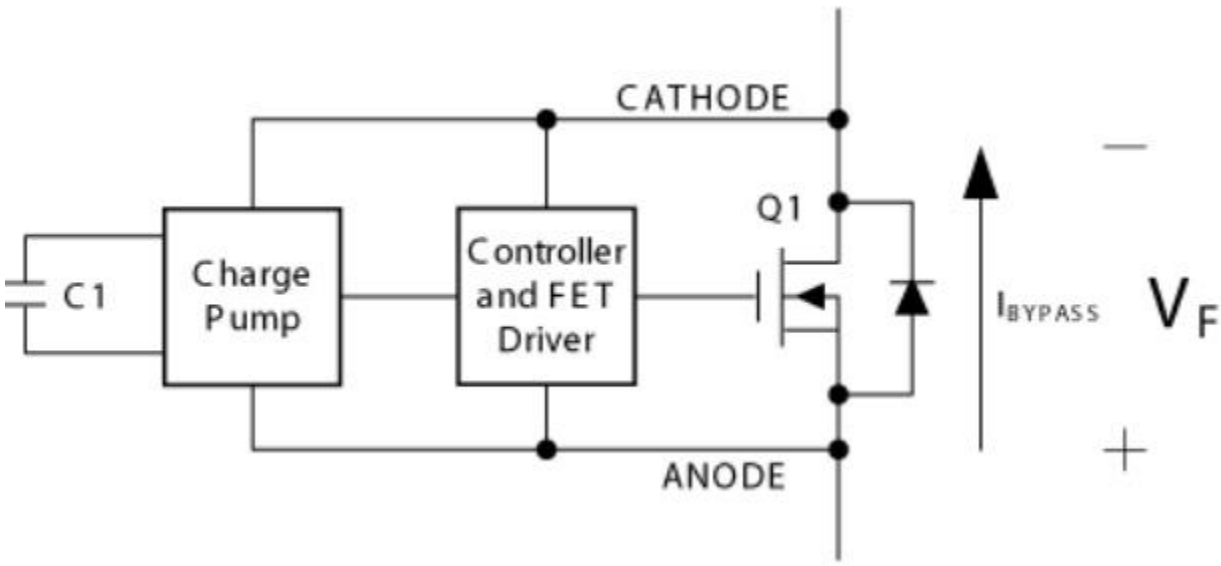
Product tiles



FAQ

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Q: Are your shipments fast?

A: Yes, we have our own warehouse, and SM74611KTTR Texas Instruments are in stock. Same-day delivery can be achieved as soon as possible.

Q: Are you a trader or a manufacturer?

A: Yes, we are traders. Most of the products we sell are purchased directly from the factory.

Q: How long do you need to give me a quote?

A: On weekdays, after receiving your information, a quote will be sent to you within the same day

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