

Product Overview

NUD4700: LED Shunt

For complete documentation, see the data sheet.

The NUD4700 is an electronic shunt which provides a current bypass in the case of a single LED going into open circuit. LEDs are by nature quite fragile when subjected to transients and surge conditions. There are also many cases where high reliability of the LED lighting must be maintained such as headlights, lighthouses, bridges, aircraft, runways and so forth. In these cases the low cost addition of the NUD4700 will provide full assurance that an entire string of LEDs will not extinguish should one LED fail. NUD4700 is also applicable to other loads where circuit continuity is required. This device is designed to be used with 1W LEDs (nominally 350mA @ 3V).

Features

- A Simple Two Terminal Device
- Automatically Resets Itself if the LED Heals Itself or is Replaced
- ON-State Voltage Typically 1 V
- OFF-State Current less than 250 μ A
- This is a Pb-Free Device

Applications

- LEDs where Preventive Maintenance is Non Practical
- LEDs with High Reliability Requirements
- Crowbar Protection for Open Circuit Conditions
- Overvoltage Protection for Sensitive Circuits

End Products

- LED Headlights

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	$V_{(BR)DSS}$ Min (V)	I_D Typ (A)	$r_{DS(on)}$ Max (m Ω)	P_D Max (W)	Package Type
NUD4700SNT1G	Pb-free Halide free	Active	-	5.5	0.0001	-	1.56	POWERMITE-2
SZNUD4700SNT1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	-	5.5	0.0001	-	1.56	POWERMITE-2

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