



Tesla™ 0.5W AC-LED

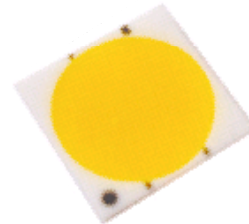
Product Specification

TS6-5U0HXXS-12

Class – 0.5W Series AC-LED Package

Voltage - 12Vac

Type - CHIP-ARRAY-ON-CERAMIC SMD



Introduction

The Tesla TS6-5 0.5W Series AC-LED is a patented one of a kind surface-mount high-brightness device that can easily be powered with 12Vac magnetic or electronic transformer power supplies. Designed to address multiple lighting applications such as general illumination, industrial and commercial lighting, garden lighting, refrigeration and signage, this Tesla TS6-5 0.5W AC-LED is the ideal solution that streamlines the OEM lighting design process and delivers all the benefits of AC-LED technology in a single 0.5W SMD ceramic package.

• Features

- Specially designed for direct drive Alternating Current (AC) applications.
- Small Footprint: 6.5 × 6.5 × 0.9mm (L×W×H)
- Multi-chip single cavity array provides uniform illumination
- Patented AC-LED Technology - 12Vac configuration
- High brightness: 0.5W
- Compliant with RoHS directive

• Applications

- Indoor/Outdoor General Illumination
- Linear Lighting applications
- Retail and Display Illumination
- Refrigeration Lighting
- Garden & Step Lights
- Signage

Electrical & Optical Characteristics

ITEM	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
AC Forward Current @ 12 Vrms	I _f	V _f =12.0Vrms	mA _{rms}	25	40	60
Viewing Angle	2θ _½		deg		110	
Thermal Resistance	R _{θj-c}	I _f =80mA _{rms}	°C/W		20	
Luminous Flux (5000K)	Φ	V _f =12.0Vrms	lm	55	60	65
CRI		I _f =80mA _{rms}		75		80

- Measurement Uncertainty of the Luminous Flux: ± 10%
- Values given are for specified drive current at 25°C junction temperature.

