

12 AMPERE NPN SILICON POWER TRANSISTOR 400 VOLTS 100 WATTS

Manufacturers	<a href="#">NXP Semiconductor</a>
Package/Case	TO-220
Product Type	Discrete Semiconductors
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for E13009-2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

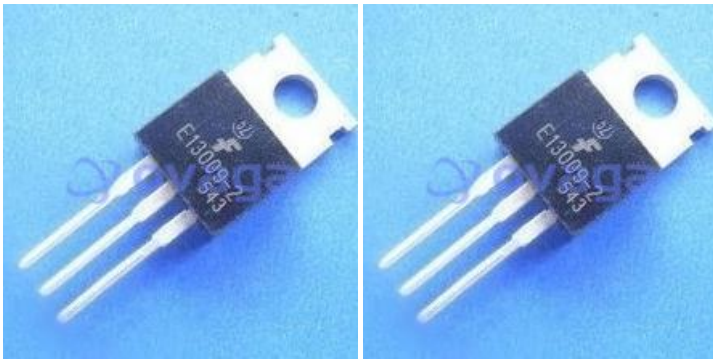
## General Description

E13009-2 is a high voltage, high-speed switching transistor that belongs to the NPN bipolar junction transistor (BJT) family. It is commonly used in various electronic circuits such as power supplies, electronic ballasts, switch-mode power supplies, and audio amplifiers.

### Features

### Application

Collector-emitter voltage (VCEO) rating of 600V	Switching power supplies: E13009-2 is commonly used as a switching transistor in power supply circuits due to its high voltage and current ratings, fast switching speed, and low saturation voltage.
Collector current (IC) rating of 12A	Electronic ballasts: E13009-2 is used in electronic ballasts for fluorescent lamps, which require high voltage and fast switching speed.
Maximum power dissipation (Pd) of 80W	Audio amplifiers: E13009-2 is used as an output transistor in audio power amplifiers due to its high power dissipation and low saturation voltage.
High DC current gain (hFE) of 25-75	High-frequency inverters: E13009-2 is used in high-frequency inverters for various applications such as induction heating, plasma generation, and welding.
Fast switching speed and low saturation voltage	
Low collector-emitter saturation voltage (VCE(sat))	



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