


## Silicon NPN Transistor HV Darlington Power Amplifier

<b>Manufacturer:</b>	<u>NTE Electronics, Inc</u>
<b>Package/Case:</b>	TO-3
<b>Product Type:</b>	Thyristors
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The MJ10001 is a power transistor designed for high-voltage and high-current applications. It is capable of handling significant power levels and is commonly used in power amplifier circuits, power supplies, motor control circuits, and other high-power electronic systems.

### Key Features

**High voltage and current capability:** The MJ10001 is designed to handle high voltage levels (typically around 450V) and high continuous current levels (typically around 12A), allowing it to handle significant power levels.

**NPN transistor configuration:** It has a NPN (Negative-Positive-Negative) transistor configuration, which means it requires a positive voltage at the base to allow current flow from the collector to the emitter.

**Darlington configuration:** It is often used in a Darlington configuration, where it is combined with another transistor to increase current gain and improve overall performance.

**TO-3 package:** It is commonly available in a TO-3 package, which provides excellent heat dissipation capabilities and easy mounting to a heat sink.

### Application

**Power amplifiers:** It can be used in audio power amplifiers, RF power amplifiers, and other applications where high-power amplification is required.

**Power supplies:** The transistor can be used in power supply circuits to handle high voltage and current levels.

**Motor control:** It can be employed in motor control circuits, such as in motor drivers and servo control systems, to handle high currents and provide efficient control.

**High-power switching:** The MJ10001 is suitable for high-power switching applications, such as in relay drivers, solenoid drivers, and other applications requiring robust switching capabilities.



## Recommended For You

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### **MJ10021**

NTE Electronics, Inc

TO-3

### **MJ10009**

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### **MJ10016**

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### **MJ10004**

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### **MJ10023**

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### **NTE129**

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### **NTE256**

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### **NTE128**

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DO-7