

## Digital Transistors (Built-in Resistors)



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- Surface mount package ideally Suited for Automatic Insertion

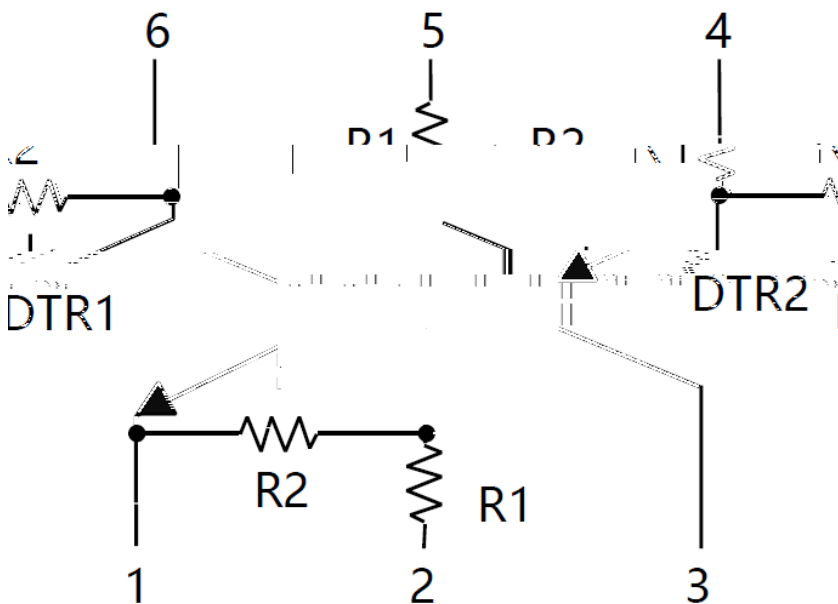
### Mechanical Data

**Package:** SOT-363

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Marking:** D15

### Equivalent circuit





## UMD15N

**Maximum Ratings** (Ta=25 Unless otherwise specified)

**DTR1-NPN**

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V <sub>CC</sub>	V		50
Input Voltage	V <sub>IN</sub>	V		-10 to +30
Output Current	I <sub>o</sub>	mA		100





# UMD15N

Fig. 3 - DTR1 Input Voltage (off) Characteristics

Fig. 4 - DTR1 Output Voltage Characteristics

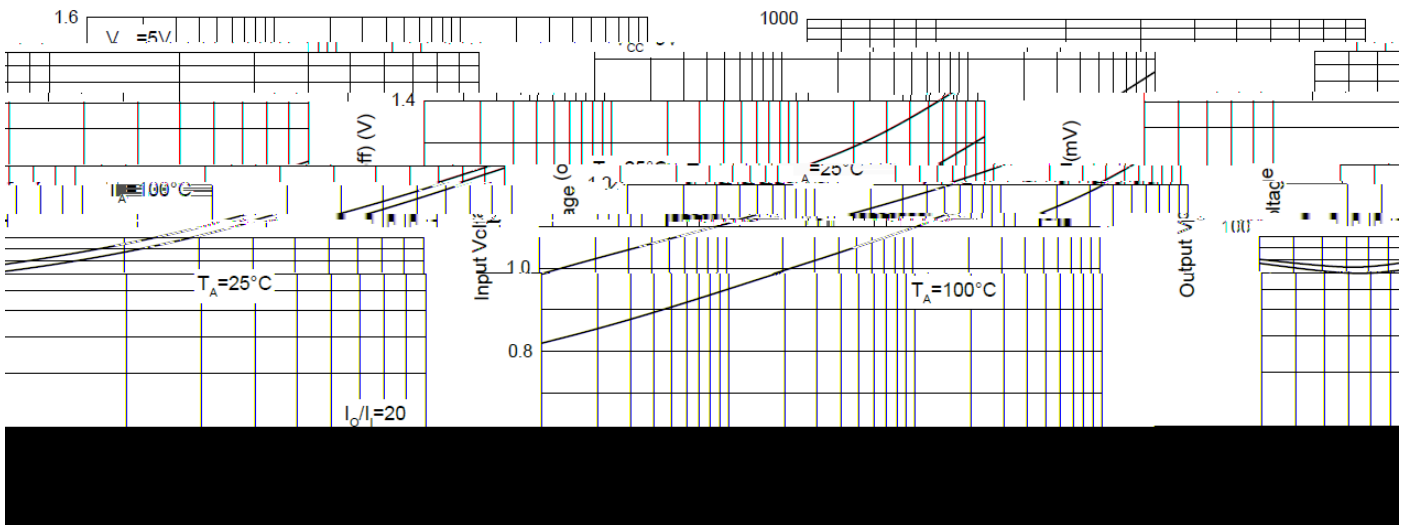


Fig. 5 - DTR2 DC Current Gain Characteristics

Fig. 6 - DTR2 Input Voltage (on) Characteristics

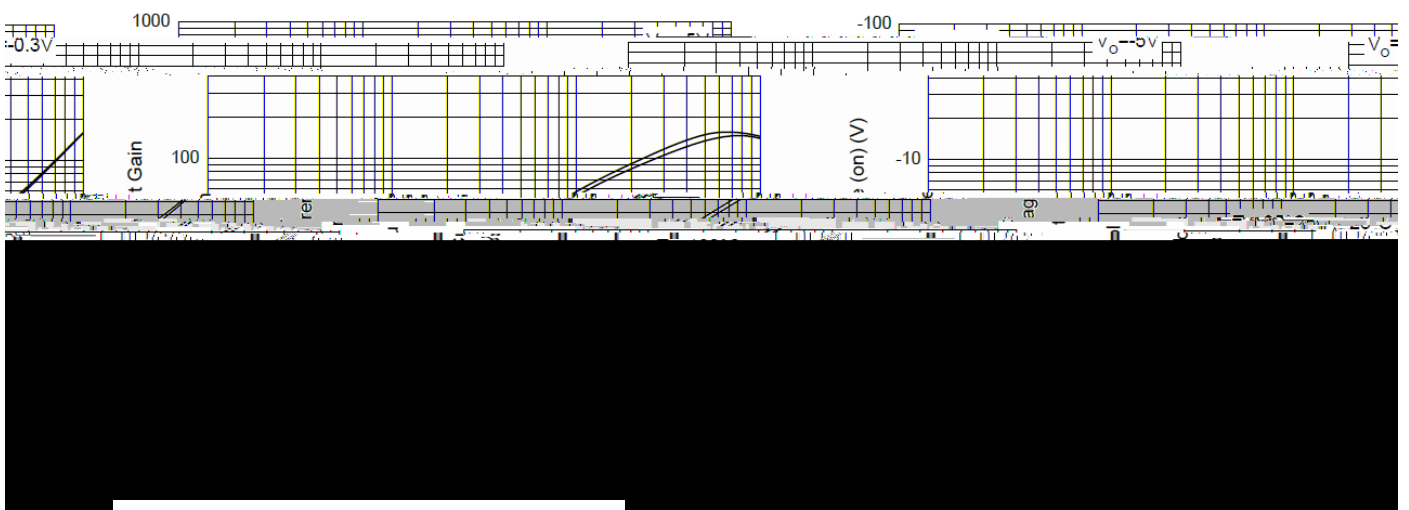
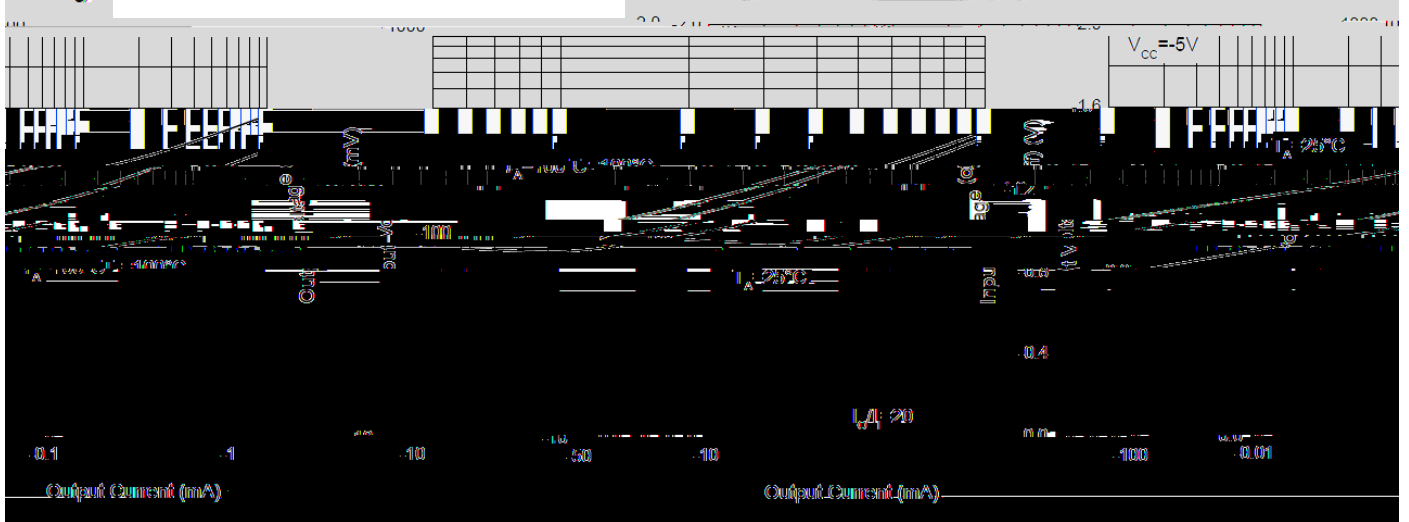


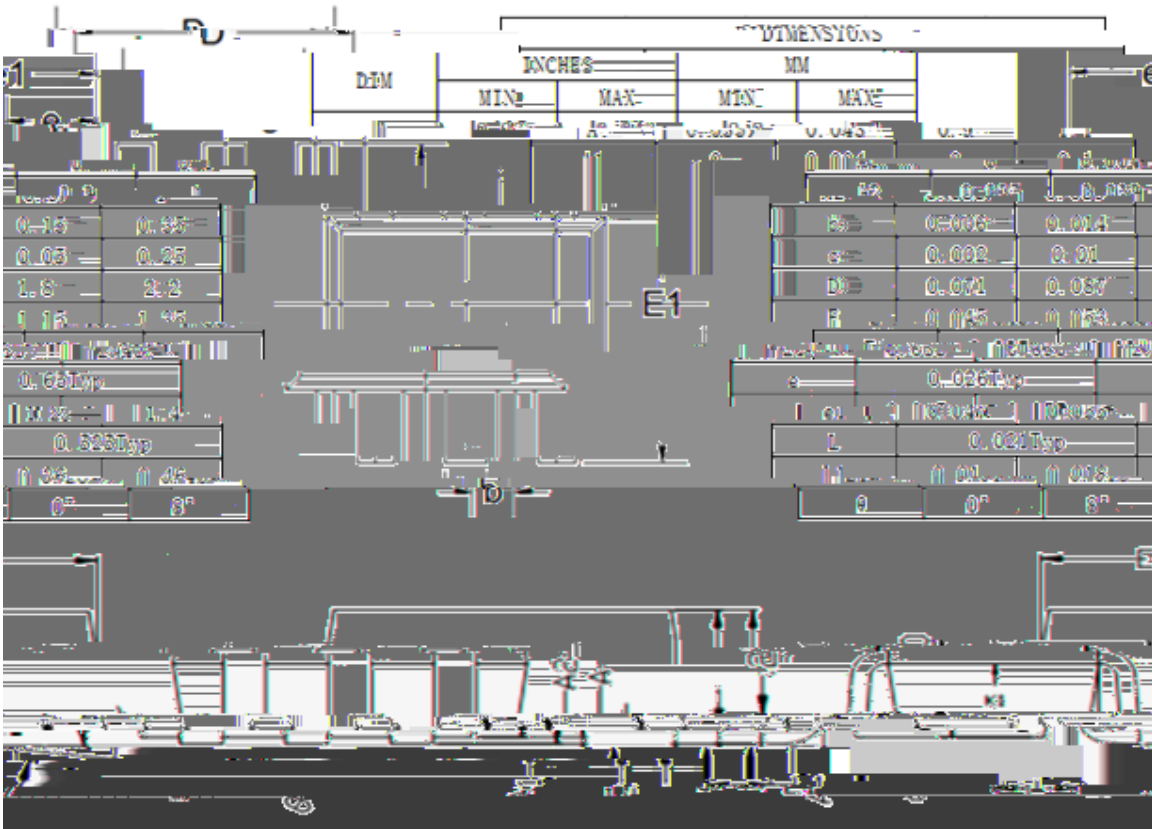
Fig. 7 - DTR2 Input Voltage (off) Characteristics



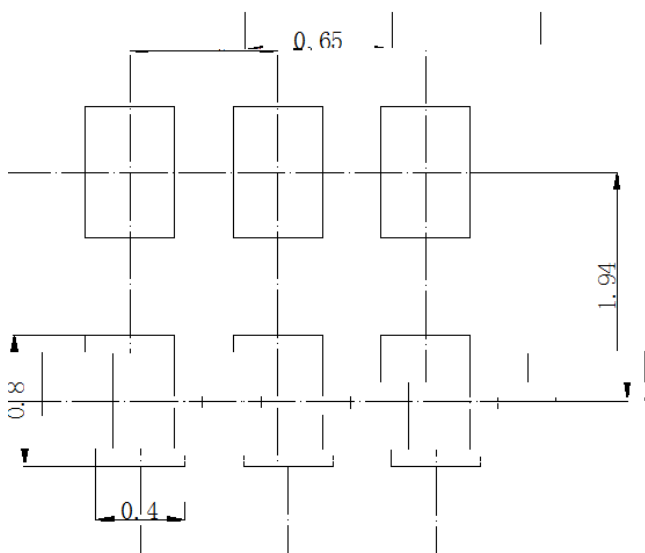


# UMD15N

## SOT-363 Package Outline Dimensions



## SOT-363 Suggested Pad Layout



Unit mm



## UMD15N

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