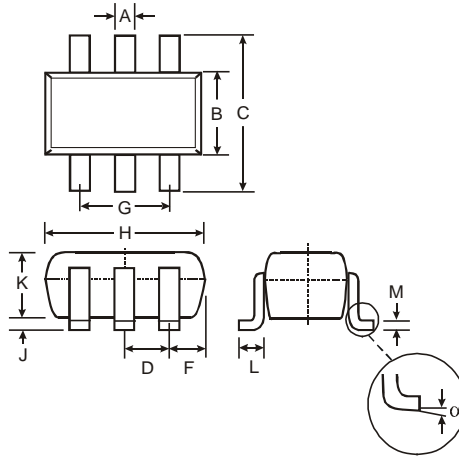


**Announcing Our Innovative New Product Platform --  
Application Specific Complex Arrays in SOT-363  
With Complex Arrays for the Relay Driver and Voltage Regulation**



SOT-363		
Dim	Min	Max
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	0.65 Nominal	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25
$\alpha$	0°	8°
All Dimensions in mm		

**Product Offerings / Highlights**

- Two-in-One Solution reduces placement costs and PCB real estate by 50% or more compared to using multiple discrete packages.
- Board layout and routing can be simplified by consolidation of trace origins to one device vs. multiple devices and/or external resistors.
- **Relay Driver Arrays:**
  - Combines a specially paired BJT transistor and switching diode in one convenient, space-saving package (details on page 2).
  - Available with pre-biased BJT transistors to further reduce board space requirements by eliminating external resistors (details on page 2).
  - Available in both current sink & current source configurations to provide design flexibility to customers, and for high voltage applications up to 80V supply voltage.
  - Designed to drive a variety of relays including PCB and automotive relays.
- **Voltage Regulator Arrays:**
  - Provides a no-frills, cost-effective voltage regulation (details on page 2).
  - Combines a specially paired BJT transistor & zener diode in one convenient, space-saving package (details on page 2).
  - Designed for compatibility with 1.8V, 2.5V, 3.3V, & 5.0V logic level circuits.
  - Can provide 100mA of output current to the load while maintaining voltage regulation (details on page 2).

**Availability**

- **Samples:** Now Available!
- **Production Quantity Lead Time:** 6 – 10 weeks
- **Data Sheets Available NOW at:** [www.diodes.com](http://www.diodes.com)

To download selected data sheet, enter p/n in our website Product Data Sheet search, or click:

**DRDN005W DRDN010W DRDNB16W DRDNB26W DRDP006W DRDPB16W**  
**DRDPB26W DVR1V8W DVR2V5W DVR3V3W DVR5V0W**

## Benefits and Features

- **Relay Driver Arrays:**
  - BJT and switching diode pair in each device is optimally chosen to provide reliable and robust relay actuation.
  - Integrated suppression/recovery diode protects the transistor from inductor coil discharge while also providing for faster closing and opening of relay contacts to minimize arcing, thus prolonging relay contact life.
  - Pre-biased applications are available in two resistor combination values, providing compatibility for both low- and high-current drive capability circuits.
- **Voltage Regulator Arrays:**
  - Provides a no-frills, cost-effective voltage regulator alternative to:
    - higher priced chips with unneeded features
    - traditional designs using separate components
  - The BJT and zener diode in each device are both chosen to provide precise voltage regulation at both minimum and maximum load current requirements.
  - Testing has shown 3.6% voltage regulation with 100mA output current capability for the DVR5V0W device when properly biased.

## Solderability & Environmental Highlights

- RoHS Compliant
- “Green” (No Bromine, Antimony) Molding Compound
- Pb-Free plating
- Withstands 260°C Solder Reflow
- Meets Moisture Sensitivity Level (MSL) 1

## Design Applications

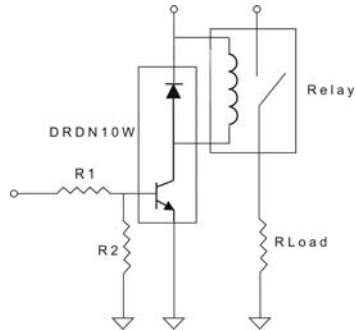
- Relay Drive Circuits
- Precise Voltage Regulation

## End Equipment Applications

- Automotive
- Power Supplies / Power Management Circuits
- Battery Chargers
- Portable Handheld Devices (Mobile Phones, PDAs, MP3 Players, Digital Cameras, etc.)
- Disk Drives
- Motherboards
- Notebook Computers
- Computer Peripherals, Printers
- Industrial Controls
- Set Top Boxes
- Networking Equipment (Routers, Hubs)

## Typical Applications

- DRDN010W Relay Driver – current sink configuration, bias resistors not included



- DVRxVxW Voltage Regulator – Resistor R1 not included

