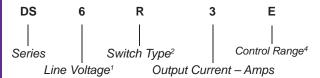


3A to 60 Vdc SIP Package **DC Control** 

Part Number	Description	
DS6R3E	3A, 60 Vdc	

# **Part Number Explanation**



#### NOTES

- 1) Line Voltage (nominal) 6 = 60 Vdc 2) Switch Type: R = Random turn-on 3) Control Range: E = 3-30 Vdc

# **MECHANICAL SPECIFICATION**

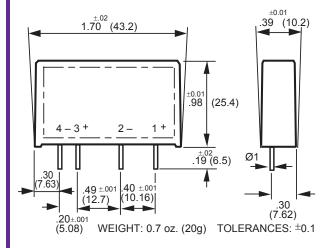


Figure 1 – DS relays; dimensions in inches (mm)

# **BLOCK DIAGRAM**

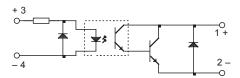


Figure 2 - DS relays





# **FEATURES/BENEFITS**

- · Industry standard package
- Surge tolerant
- · Compact size

### **DESCRIPTION**

The DS 3-amp solid-state single inline package (SIP) four-pin relays are designed for mounting on printed circuit boards. The relays are designed for medium power DC loads. The Series DS relay is an alternative to electromechanical and reed relays.

### **APPLICATIONS**

- Programmable logic controllers
- Instrumentation
- Test equipment
- · Solenoid drivers

# **TYPICAL APPLICATION**

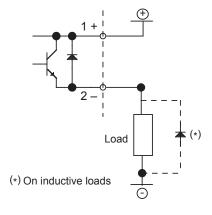


Figure 3 - DS relays



# Series DS6R3E

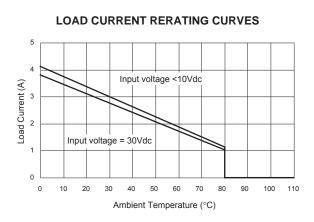
3A to 60 Vdc SIP Package **DC Control** 

	Min	Max	Units			
Control Range	3	30	Vdc			
Input Current Range	11	30	mAdc			
Must Turn-Off Voltage		1	Vdc			
Input Resistance (Typical)		1000	Ohms			
OUTPUT (LOAD) SPECIFICATION						
			Units			
Operating Range	2	60	Vdc			
Peak Voltage		60	Vpeak			
Load Current Range	.005	3	Α			
Maximum Surge Current Rating (Non-Repetitive)						
			Apeak			
On-State Voltage Drop		1.6	Vdc			
Off-State Leakage Current		1	mA			
Turn-On Time	200		μs			
Turn-Off Time	800		μs			

200

Switching Frequency 0 500 Hz

**INPUT (CONTROL) SPECIFICATION** 



# **ENVIRONMENTAL SPECIFICATION**

	Min	Max	Units	
Operating Temperature	-40	80	°C	
Storage Temperature	-40	105	°C	
Input-Output Isolation		2500	Vrms	
Input-Output Capacity		8	pF	

V/µs

- NOTES
  1) Electrical specifications at 25°C unless otherwise specified
  2) On inductive loads, a free-wheeling diode (or clamp) is recommended
  3) For additional/custom options, contact factory.

Off-State dv/dt

# **Mouser Electronics**

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Teledyne Relays:

DS22R1E DS6R3E