DC SOLID STATE RELAY

NEW Series C62

TELEDYNE RELAYS

NORMALLY ON, OPTICALLY ISOLATED 0.2 A, 200 VDC

Part Number	Relay Description
C62-20	0.2A, 200 Vdc, DC Solid State Relay, Normally on 6 Pin DIP Plastic (for surface mount add “s” prefix)

ELECTRICAL SPECIFICATION

(-20°C TO +85°C, Ambient Temperature UNLESS OTHERWISE SPECIFIED)

INPUT (CONTROL) SPECIFICATION

	Min	Typ	Max	Units
Input Current	8		50	mA dc
Turn-On			0.1	mA dc
Turn-Off	8.0			mA dc

OUTPUT (LOAD) SPECIFICATION

	Min	Typ	Max	Units
Current Rating (Continuous)			0.20	Adc
Operating Voltage (Continuous)			200	Vdc
Output Voltage Drop @ 25° C @ Rated Load Current (Input Current = 0 mA)			0.80	Vdc
ON Resistance				
@ T_J = 25 °C			4.0	ohm
@ T_J = 85 °C			6.7	ohm
Leakage Current @ V = 200 Vdc (See Note 2)			25	µA
Turn-On Time			4.50	mSec
Turn-Off Time			400	µSec
Insulation Resistance @ 500 Vdc	100			Meg Ohm
Isolation (Input to Output Capacitance)			3	pF
Output Capacitance @ 25 Vdc,				
100 KHz, I_{IN}= 15 mA		100		pF

FEATURES

- Low on resistance
- Normally on without Input
- Optical Isolation
- Paralleling capability
- Small Package
- SMT

APPLICATIONS

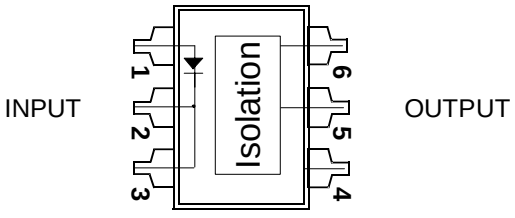
- Protection circuits
- Normally on switch

DESCRIPTION

Normally On solid state switches are electronic replacements for the conventional normally On electromechanical-relay.

Opto isolated control feature, high reliability, small size and low weight makes this normally on solid state switch a good replacement for the electromechanical switch.

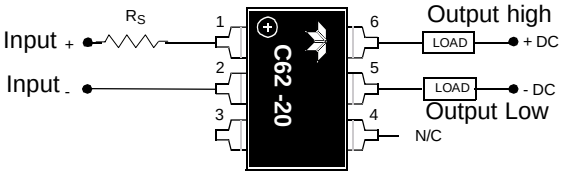
BLOCK DIAGRAM



ENVIRONMENTAL SPECIFICATIONS

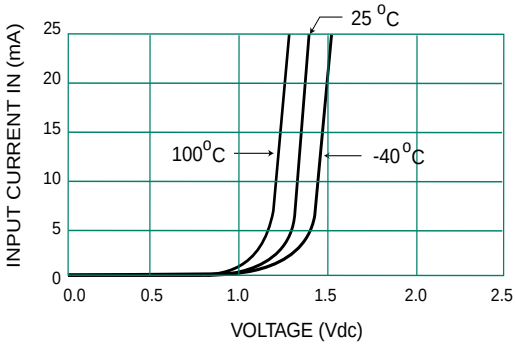
OUTPUT (LOAD) SPECIFICATION

	Min	Typ	Max	Units
Dielectric Withstanding Voltage			750	Vrms
Junction Temperature (T_J Max)			125	°C
Storage Temperature	-40		100	°C
Thermal Resistance Junction to Ambient (θ_{JA})			125	°C/W
Weight			1.0	gm



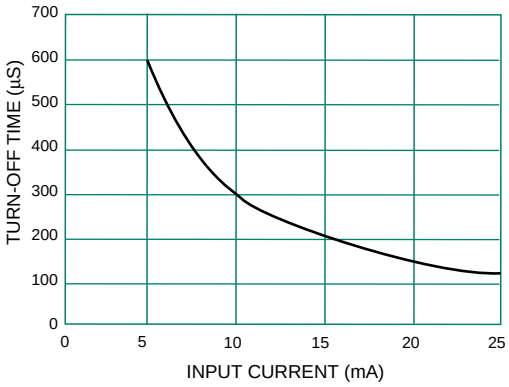
WIRING DIAGRAM

Figure 2



TYPICAL INPUT FORWARD CURRENT VS. FORWARD VOLTAGE

Figure 3



TYPICAL TURN-OFF TIME VS. INPUT CURRENT

Figure 4

MECHANICAL SPECIFICATIONS

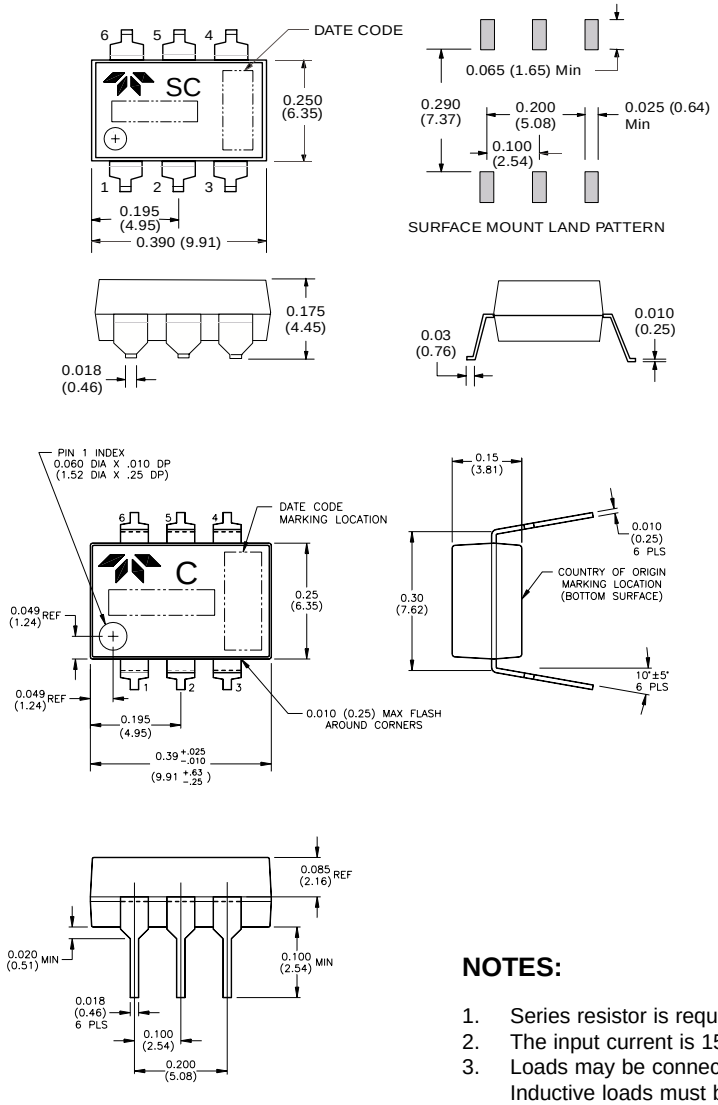


Figure 1

NOTES:

1. Series resistor is required to limit input current to 50 ma maximum.
2. The input current is 15 ma tests unless otherwise specified.
3. Loads may be connected to positive or negative referenced power supplies. Inductive loads must be diode suppressed.
4. Continuous load current is rated under the conditions of still air and mounted on a printed circuit board.