

Part Number	Description
ZD24CC*	500mA, 80 Vdc short-circuit protected up to 60 Vdc, solid-state relay for through-hole mounting
SZD24CC*	500mA, 80 Vdc short-circuit protected up to 60 Vdc, solid-state relay for surface mount

*No suffix: Room temperature electrical testing only

W suffix: load conditioning, temperature cycling and 25°C parametric testing T suffix: load conditioning, temperature cycling, burn-in and 3-temperature parametric testing

ELECTRICAL SPECIFICATIONS

(-55°C to +105°C ambient temperature unless otherwise specified)

INPUT (CONTROL) SPECIFICATIONS

	Min	Max	Units
Input Current	8	20	mA
Input Voltage @ 10 mA	2	3	Vdc
Must Turn-On Current	8		mA
Must Turn-Off Current		100	μA
Must Turn-Off Voltage		0.8	Vdc
Reverse Polarity	-6		Vdc

OUTPUT (LOAD) SPECIFICATIONS

	Min	Max	Units
Load Voltage Range	0	80	Vdc
Output Current Rating (See Figure 5)		500	mA
Leakage Current at Rated Voltage		10	μΑ
Transient Blocking Voltage @25°C		100	Vdc
Output Capacitance @25Vdc (25°C)		600	pF
Output Voltage Drop @500mA		0.5	Vdc
On Resistance		1.0	Ohm
Turn-On Time		2.0	ms
Turn-Off Time		1.0	ms
Trip Overload (See Figure 6)		96)	А
Short-Circuit Protection		60	Vdc

STATUS SPECIFICATIONS

Min	Max	Units
Status Leakage Current @ 15 Vdc	5	μA
Status Blocking Voltage	32	Vdc
Status "On" Voltage @ 10 mAdc	0.4	Vdc
Status "On" Current	10	mA

ZD24CC Series 500mA, 80 Vdc Optically Isolated Circuit Protected with Trip Status

Short-Circuit Protected with Trip Status



FEATURES/BENEFITS

- · Short-circuit protected
- Overload protected
- Trip status
- · Low off-state leakage
- Optical isolation
- · Compact 6-pin package

DESCRIPTION

ZD24CC Series Relays have optical isolation between relay input and output. Loads may be connected to either the positive or negative output terminals. ZD24CC Relays act as electronic circuit breakers that sense shorted loads or other overload events and then trip-off. Relay contacts open and no current flows through the relay and associated loads. These relays prevent overcurrent damage to the system. ZD24CC Series Relays have Trip Status to indicate a latched-off relay condition. Cycling the relay on-off removes the tripped or latched-off condition and returns the relay to the normal operating state.

STATUS OUTPUT TRUTH TABLE

Output (Switch) State	Status Output Level
Tripped	Low (≤0.4 Vdc)
Not Tripped	High (open collector)

ZD24CC Series





MECHANICAL SPECIFICATIONS

GENERAL SPECIFICATIONS





0.025 (0.64) MIN.

Weight: 0.035 oz. (1g) maximum Case: 6-pin, dual-in-line, filled epoxy

→ + 0.018 (0.46)

0.025 (0.64) BEE

TOLERANCES: XX = ±0.010 (±0.25), XXX = ±0.005 (±0.13) CONTROLLING DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE SUPPLIED FOR REFERENCE ONLY.



500mA, 80 Vdc Optically Isolated **Short-Circuit Protected with Trip Status**





ZD24CC Series

500mA, 80 Vdc Optically Isolated Short-Circuit Protected with Trip Status



8. For surface-mount-solder-attaching SZD24CC Series Relays, in IR heating or convection heating systems, the component temperature is limited to +235°C maximum for 10 seconds maximum.

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