

AUTOMOTIVE RELAY

42V Micro 280 Relay

■ FEATURES

- Contact rating: 42 VDC, 20A
- Rated coil voltage: 42VDC
- Contact arrangement: 1 Form C
- Maximum switching current: 55VDC, 30A (10 times)

■ APPLICATIONS

- Automotive applications such as blower fan motors, electric power steering systems, wiper motors, ABS and head lamps



■ SPECIFICATIONS

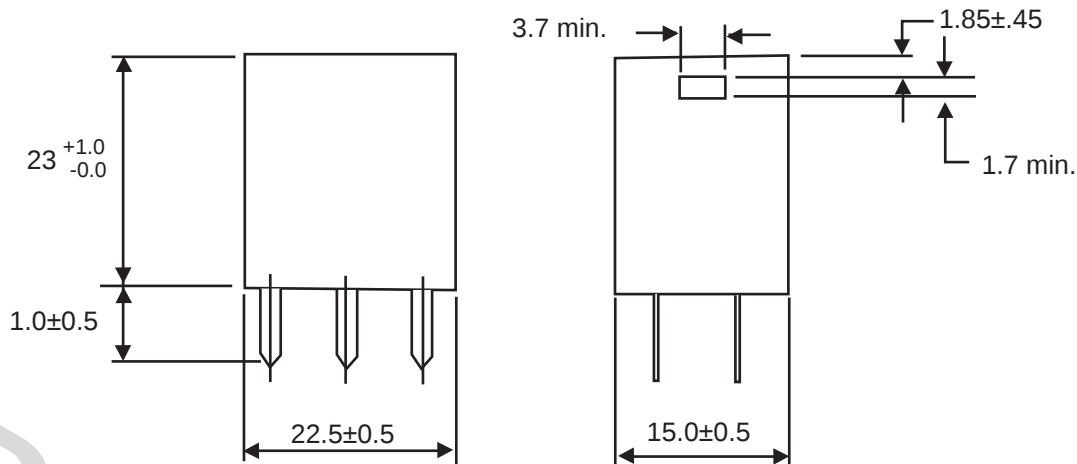
Item		42V Micro 280 Relay
Contact	Arrangement	1 Form C
	Material	Silver alloy
	Rated Contact Voltage	42 VDC
	Rating (resistive)	42 VDC, 20A
	Maximum Carrying Current	10A (N.O. contact); 5A (N.C. contact)
	Maximum Inrush Current	40A (N.O. contact); 20A (N.C. contact)
	Resistance (initial)	Maximum 50mΩ (at 5A)
	Max. Contact Voltage and Current	50 VDC, 30A
Coil	Operating Temperature	-40° C to +125° C (no frost)
	Storage Temperature	-40° C to +132° C (no frost)
	Rated coil voltage	42 VDC
	Voltage range	27 to 50 VDC
	Coil Resistance	740Ω±10%
	Power Consumption	Approximately 2.38W (rated at coil voltage)
	Pick-up Voltage	Maximum 24.5 VDC
	Drop-out Voltage	4.2 to 21 VDC
Time Value	Operate Time (at nominal voltage)	Maximum 20 ms (excluding bounce time)
	Release Time (at nominal voltage)	Maximum 20 ms (excluding bounce time)
Life	Mechanical	1 x 10 ⁶ operations minimum
	Electrical	1 x 10 ⁵ operations minimum (42VDC 10A N.O. contact) 1 x 10 ⁵ operations minimum (42VDC 5A N.C. contact)
Other	Vibration Resistance	10-500 Hz, 44.1m/s ²
	Shock Resistance	100m/s ² (11ms)
	Weight	Approximately 20g

*1 Minimum switching loads mentioned above are reference values. Please perform the confirmation test with the actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

42V Micro 280 Relay

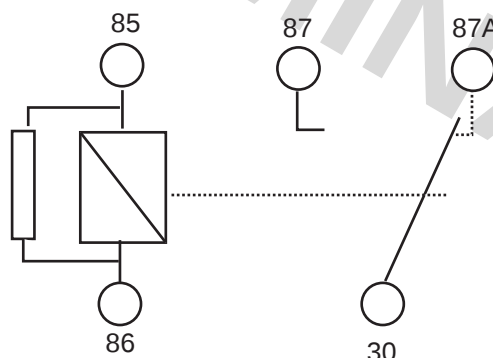
■ DIMENSIONS

● Dimensions



● Schematic

Supression Device



Unit: mm

Fujitsu Components International Headquarter Offices

Japan

Fujitsu Component Limited
Gotanda-Chuo Building
3-5, Higashigotanda 2-chome, Shinagawa-ku
Tokyo 141, Japan
Tel: (81-3) 5449-7010
Fax: (81-3) 5449-2626
Email: promothq@ft.ed.fujitsu.com
Web: www.fcl.fujitsu.com

North and South America

Fujitsu Components America, Inc.
250 E. Caribbean Drive
Sunnyvale, CA 94089 U.S.A.
Tel: (1-408) 745-4900
Fax: (1-408) 745-4970
Email: marcom@fcai.fujitsu.com
Web: www.fcai.fujitsu.com

Europe

Fujitsu Components Europe B.V.
Diamantlaan 25
2132 WV Hoofddorp
Netherlands
Tel: (31-23) 5560910
Fax: (31-23) 5560950
Email: info@fceu.fujitsu.com
Web: www.fceu.fujitsu.com

Asia Pacific

Fujitsu Components Asia Ltd.
102E Pasir Panjang Road
#04-01 Citilink Warehouse Complex
Singapore 118529
Tel: (65) 375-8560
Fax: (65) 273-3021
Email: fcal@fcal.fujitsu.com
www.fcal.fujitsu.com