

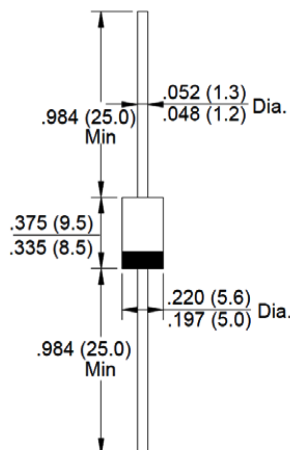
Ultra Fast Recovery High Efficiency Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 1A

multicompPRO

**RoHS
Compliant**

DO-204AL (DO-41)



Dimensions : Inches (Millimetres)

Features

- Glass Passivated (GPP)
- Low cost
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- Lead free
- Case style: DO-204AL (DO-41) molded plastic

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	MP000931	MP000932	MP000933	MP000934	MP000935	MP000936	MP000937	MP000938	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	
Maximum Average Forward Rectified Current @ T _A = 50°C	I _(AV)	1								A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30								A
Peak Forward Voltage at 2A DC	V _F	1			1.3		1.7			V
Maximum DC Reverse Current at Rated @ T _J = 25°C DC Blocking Voltage @ T _J = 100°C	I _R	5 100								μA
Maximum Reverse Recovery Time (Note 1)	T _{RR}	50					75			nS
Typical Junction Capacitance (Note2)	C _J	50					30			pF

Newark.com/exclusive-brands
Farnell.com/exclusive-brands
Element14.com/exclusive-brands

multicompPRO

Ultra Fast Recovery High Efficiency Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 1A

multicompPRO

Characteristics	Symbol	MP000931	MP000932	MP000933	MP000934	MP000935	MP000936	MP000937	MP000938	Unit
Typical Thermal Resistance Junction to Ambient	R _{θJA}	25								°C/W
Operating Junction Temperature Range	T _J	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

Notes:

1. Measured with I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A
2. Measured at 1MHz and applied reverse voltage of 4V DC.
3. The typical data above is for reference only.

Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

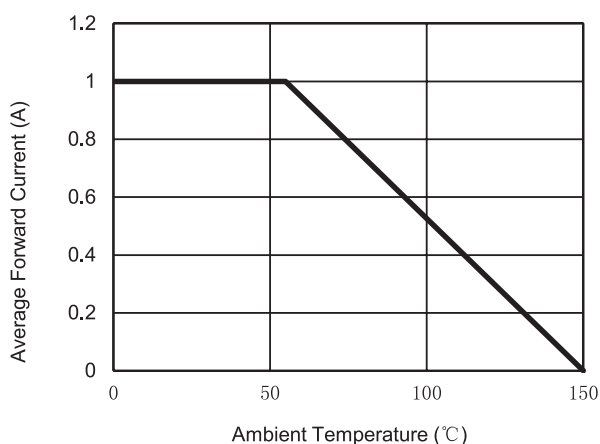


Fig. 2 - Maximum Non-Repetitive Surge Current

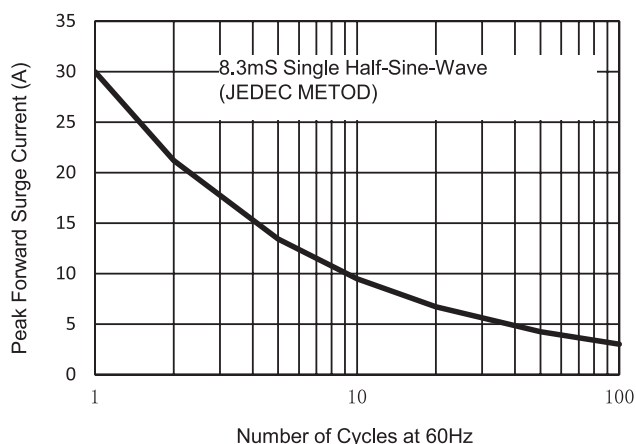


Fig. 3 - Typical Junction Capacitance

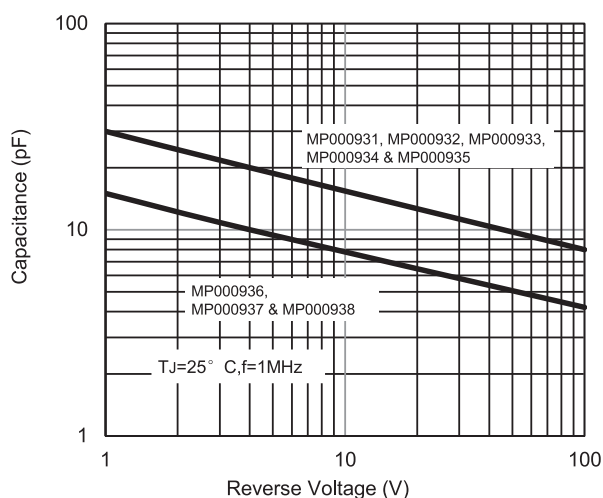
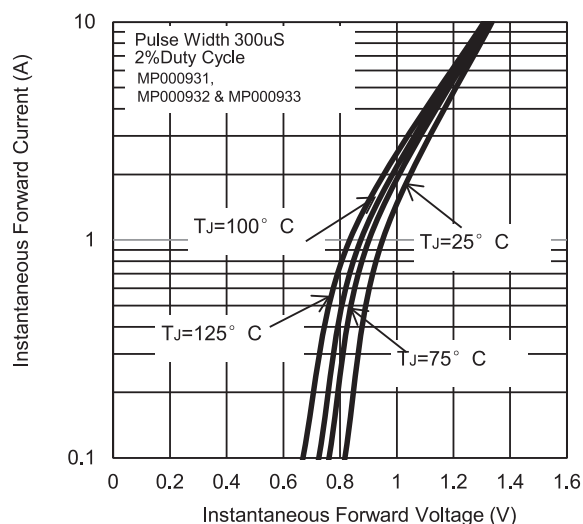


Fig. 4 - Typical Forward Characteristics



Newark.com/exclusive-brands
Farnell.com/exclusive-brands
Element14.com/exclusive-brands

multicompPRO

Ultra Fast Recovery High Efficiency Rectifier Diodes

V_{RRM} - 50 Volts to 1000 Volts, 1A

multicompPRO

Fig. 5 - Typical Forward Characteristics

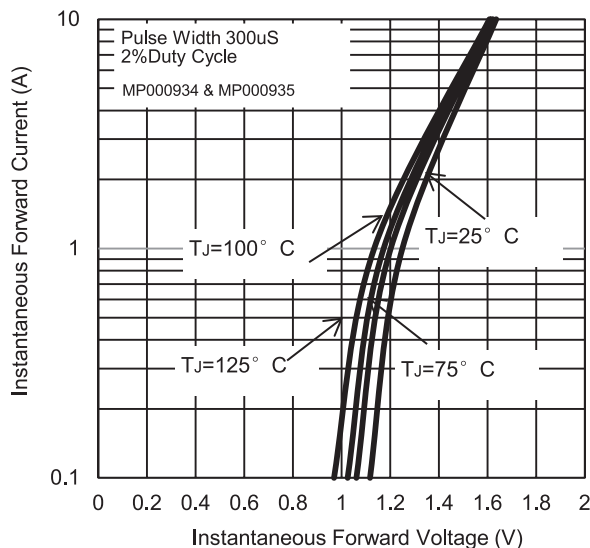
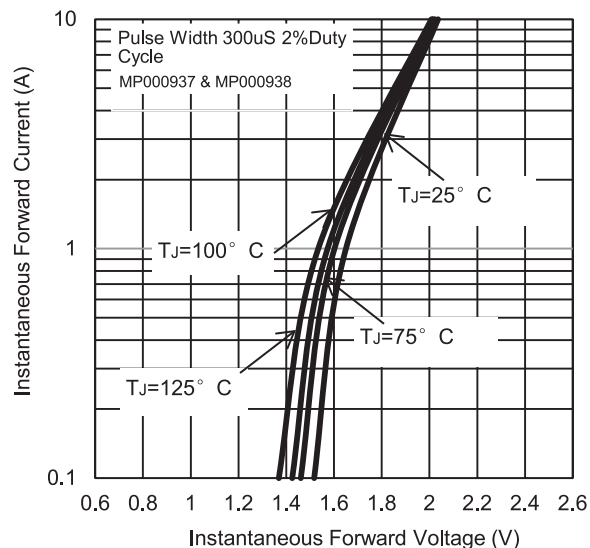


Fig. 6 - Typical Forward Characteristics



Part Number Table

Description	Part Number
Rectifier Diode, Ultra Fast, 50V, 1A, DO-204AL (DO-41)	MP000931
Rectifier Diode, Ultra Fast, 100V, 1A, DO-204AL (DO-41)	MP000932
Rectifier Diode, Ultra Fast, 200V, 1A, DO-204AL (DO-41)	MP000933
Rectifier Diode, Ultra Fast, 300V, 1A, DO-204AL (DO-41)	MP000934
Rectifier Diode, Ultra Fast, 400V, 1A, DO-204AL (DO-41)	MP000935
Rectifier Diode, Ultra Fast, 600V, 1A, DO-204AL (DO-41)	MP000936
Rectifier Diode, Ultra Fast, 800V, 1A, DO-204AL (DO-41)	MP000937
Rectifier Diode, Ultra Fast, 1kV, 1A, DO-204AL (DO-41)	MP000938

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/exclusive-brands
Farnell.com/exclusive-brands
Element14.com/exclusive-brands

multicompPRO