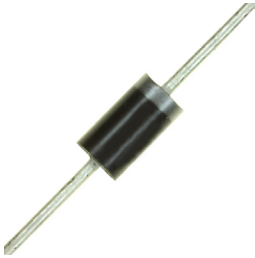


Ultra Fast Recovery Rectifier Diode

V_{RRM} - 600 Volts, 1A

multicomp PRO

**RoHS
Compliant**



Features

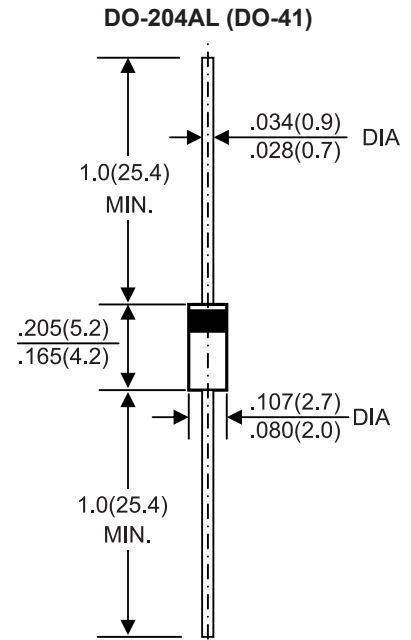
- Glass Passivated (GPP)
- Ultra fast switching for high efficiency
- Low leakage current
- High forward surge capability
- Solder dip 260°C, 40s
- High current capability
- Component in accordance to WEEE 2002/96/EC
- Case style: DO-204AL (DO-41) molded plastic

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%.



Dimensions : Inches (Millimetres)

Characteristics	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	
Maximum DC Blocking Voltage	V _{DC}	600	
Maximum average forward rectified current 0.375" (9.5mm) lead length @ T _A = 50°C	I _(AV)	1	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	35	A
Maximum instantaneous forward voltage at 1A	V _F	1.35	V
Maximum DC Reverse Current @T _A = 25°C at Rated DC Blocking Voltage @T _A = 100°C	I _R	5 50	μA
Maximum Reverse Recovery Time	T _{RR}	60	nS
Typical Junction Capacitance (Note 1)	C _J	20	pF
Typical thermal resistance (Note 2)	R _{θJA}	50	°C/W
Operating Temperature Range	T _J	-65 to +175	°C
Storage Temperature Range	T _{STG}	-65 to +175	°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC
2. Thermal resistance junction to ambient
3. The typical data above is for reference only

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

multicomp PRO

Ultra Fast Recovery Rectifier Diode

V_{RRM} - 600 Volts, 1A



Rating and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

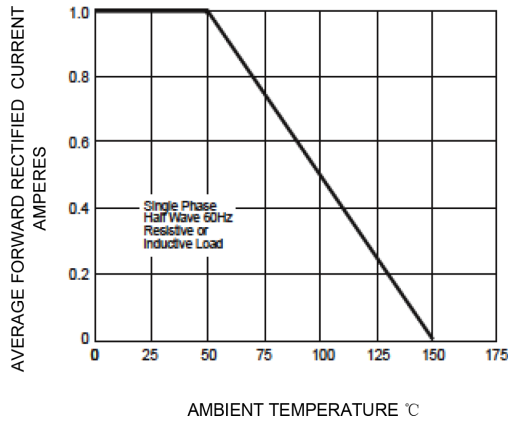


FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

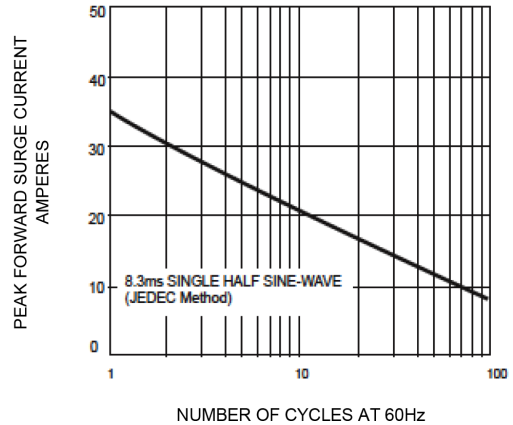


FIG.3-TYPIACL REVERSE CHARACTERISTICS

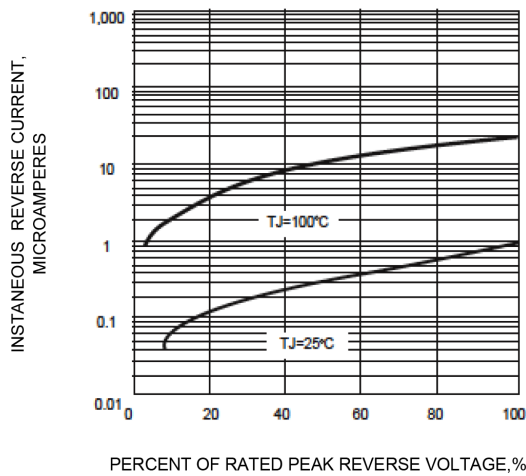
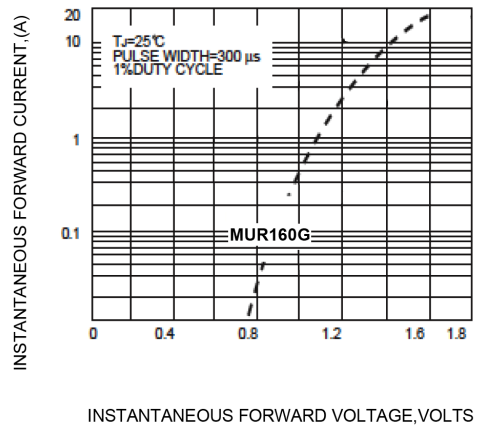


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Part Number Table

Description	Part Number
Rectifier Diode, Ultra Fast, 600V, 1A, DO-204AL (DO-41)	MUR160G

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

