



UG1A THRU UG1D

1.0 AMP. Ultrafast Plastic Rectifiers



Voltage Range
50 to 200 Volts
Current
1.0 Ampere

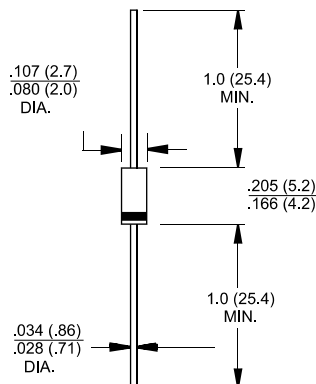
Features

- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability
- ✧ Ultrafast recovery time for high efficiency

Mechanical Data

- ✧ Cases: Molded plastic
- ✧ Epoxy: UL 94V-O rate flame retardant
- ✧ Lead: Axial leads, solderable per MIL-STD-750, Method 2026 guaranteed
- ✧ Polarity: Color band denotes cathode end
- ✧ High temperature soldering guaranteed: 300°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ✧ Weight: 0.34gram

DO-204AL (DO-41)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	UG1A	UG1B	UG1C	UG1D	Units
Maximum Recurrent Peak Reverse Voltage	50	100	150	200	V
Maximum RMS Voltage	35	70	105	140	V
Maximum DC Blocking Voltage	50	100	150	200	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @T _A = 75°C	1.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	40				A
Maximum Instantaneous Forward Voltage @ 1.0A	0.95				V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	5.0 200				uA uA
Maximum Reverse Recovery Time (Note 1)	15				nS
Typical Junction Capacitance (Note 2)	7				pF
Typical Thermalresistance (Note 3) R θ JA R θ JL	60 20				°C/W
Operating Temperature Range T _J	-55 to +150				°C
Storage Temperature Range T _{STG}	-55 to +150				°C

Notes: 1. Reverse Recovery Test Conditions: IF=1.0A, VR=30V, di/dt=50A/uS, Irr=10% IRM for Measurement of trr.

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

3. Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Length.

