



Features:

- · Plastic package
- · Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- · Ultrafast recovery time for high efficiency
- · Excellent high temperature switching
- · Soft recovery characteristics
- · Glass passivated junction
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Specifications:

Mechanical Data:

Case : JEDEC DO-201AD moulded plastic body over passivated chip Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity : Colour band denotes cathode end

Mounting position : Any

Weight : 0.045oz, 0.4g

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	UG4D	Units	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200		
Maximum RMS Voltage	V _{RMS}	140	V	
Maximum DC Blocking Voltage	V_{DC}	200		
Maximum Average Forward Rectified Current at 0.375 inch (9.5mm) Lead Length at $T_L = 75^{\circ}\text{C}$	I _{F(AV)}	4	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) at T _L = 75°C	I _{FSM}	150		
Typical Thermal Resistance (Note 1)	$R_{ heta JA}$	25	°C/W	
Operating Junction and Storage Temperature Range	T_J , T_STG	-55 to +150°C	°C	

Note: 1 Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) Lead Length.

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Electrical Characteristics:

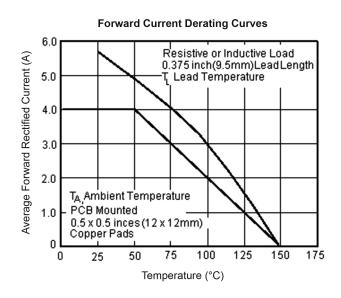
Rating at 25°C ambient temperature unless otherwise specified.

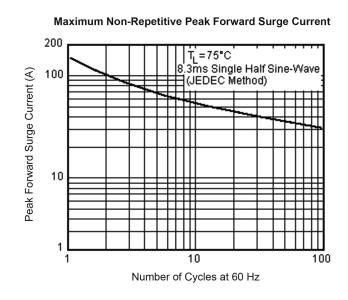
Parameter	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage at 4A (Note 2)	V _F	0.95	V
Maximum DC Reverse Current $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $T_A = 100^{\circ}C$	I _R	5 200	μΑ
Maximum Reverse Recovery Time at I_F = 0.5A, I_R = 1A, I_{rr} = 0.25A		20	
Maximum Reverse Recovery Time at $T_J = 25^{\circ}\text{C}$ $I_F = 4\text{A}$, di/dt = 50A/µs, $V_R = 30\text{V}$, $I_{rr} = 10\%$ I_{RM} $T_J = 100^{\circ}\text{C}$	t _{rr}	30 50	nS
$ \begin{array}{ll} \mbox{Maximum Recovered Stored Charge} & \mbox{T_J = 25°C} \\ \mbox{I_F = $4A$, di/dt = $50A/\mu s, V_R = $30V$, I_{rr} = $10\% \ I_{RM} $ \\ \end{array} $	Q _{RR}	15 30	nC
Typical Junction Capacitance at 4V, 1MHz	CJ	20	pF

Note 1: Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) Lead Length.

Note 2: Pulse Test: 300µs Pulse Width, 1% duty Cycle.

Ratings and Characteristic Curves ($T_A = 25^{\circ}$ C unless otherwise noted)

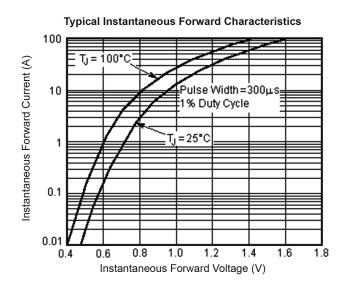


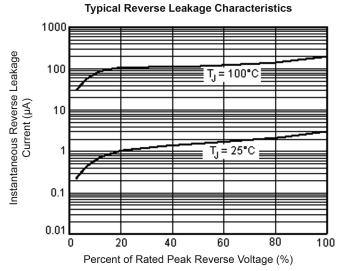


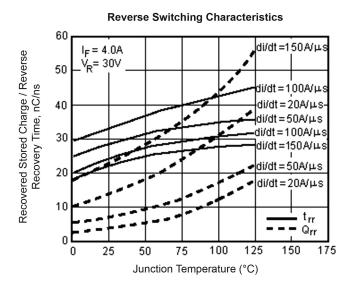
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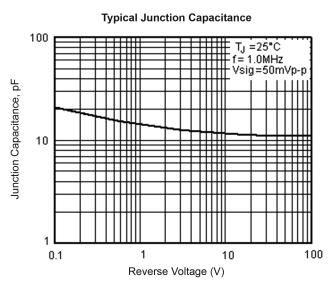






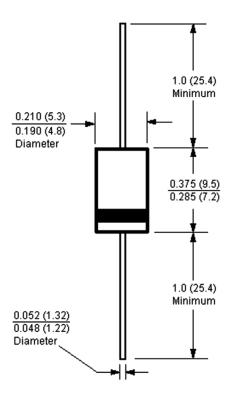








DO-201AD



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Ultra-Fast, 4A, 200V	UG4D

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