



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-204AC 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 : 0.015oz, 0.4g

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	UG2D	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" (9.5mm) Lead Length at $T_L = 75^{\circ}\text{C}$	IF _(AV)	2.0	- A	
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) at T _L = 75°C	I _{FSM}	80		
Typical Thermal Resistance (Note 1)	R _{eJA}	45	°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:

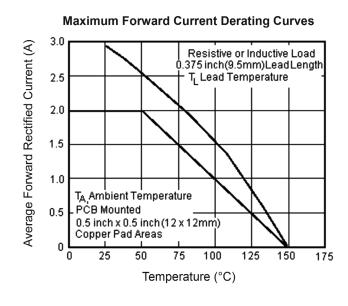
Rating at 25°C ambient temperature unless otherwise specified.

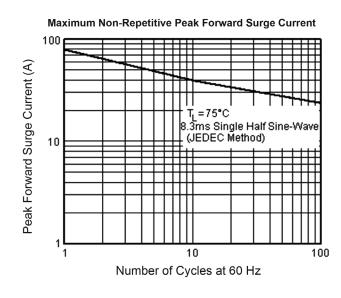
Parameter	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage at 2.0A (Note 2)	V _F	0.95	V
	I _R	5 200	μΑ
Maximum Reverse Recovery Time at I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A		15	
Maximum Reverse Recovery Time at $T_J = 25^{\circ}\text{C}$ $I_F = 2.0\text{A}, \ V_R = 30\text{V}, \ \text{di/dt} = 50\text{A/}\mu\text{s}, \ I_{rr} = 10\% \ I_{RM}$ $T_J = 100^{\circ}\text{C}$	t _{rr}	25 35	nS
Maximum Recovered Stored Charge $T_J = 25^{\circ}\text{C}$ $I_F = 2.0\text{A}, \ V_R = 30\text{V}, \ \text{di/dt} = 50\text{A/}\mu\text{s}, \ I_{rr} = 10\% \ I_{RM}$ $T_J = 100^{\circ}\text{C}$	Q_{RR}	10 22	nC
Typical Junction Capacitance at 4V, 1MHz	C _J	15	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°C unless otherwise noted)

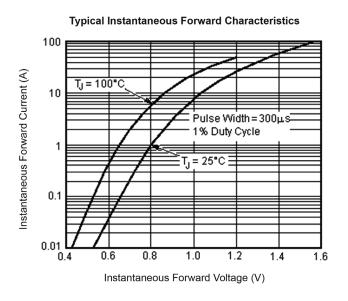


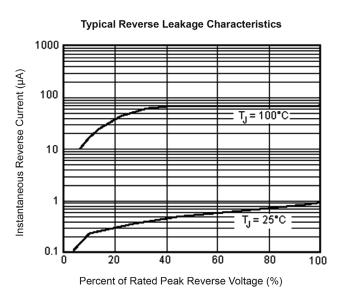


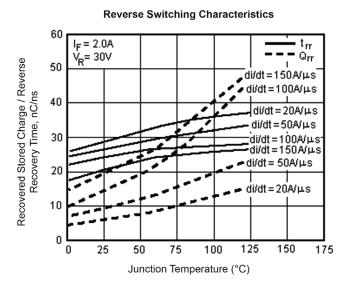
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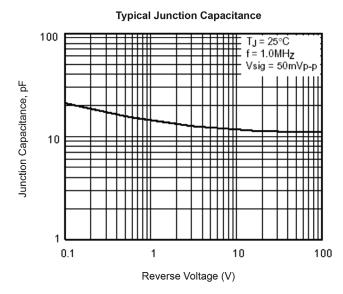






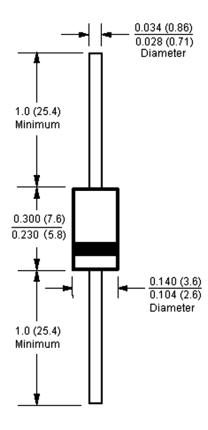








DO-204AC (DO-15)



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Ultra-Fast, 2A, 200V	UG2D

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