



3.0A ULTRAFAST DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

Case: DO-201AD, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

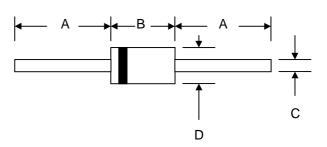
Polarity: Cathode Band

Weight: 1.2 grams (approx.)

Mounting Position: Any

Marking: Type Number

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4



DO-201AD								
Dim	Min	Max						
Α	25.4	_						
В	7.20	9.50						
С	1.20	1.30						
D	4.80	5.30						
All Dimensions in mm								

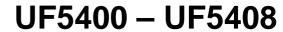
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5406	UF 5407	UF 5408	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	300	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo	3.0							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	150							А	
Forward Voltage @I _F = 3.0A	VFM	1.0 1.3 1.7						V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	lгм	10 100							μΑ	
Reverse Recovery Time (Note 2)	trr	50 75					nS			
Typical Junction Capacitance (Note 3)	Cj	80 50				pF				
Operating Temperature Range	Tj	-65 to +125						°C		
Storage Temperature Range	Тѕтс	-65 to +150						°C		

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





3.0A ULTRAFAST DIODE

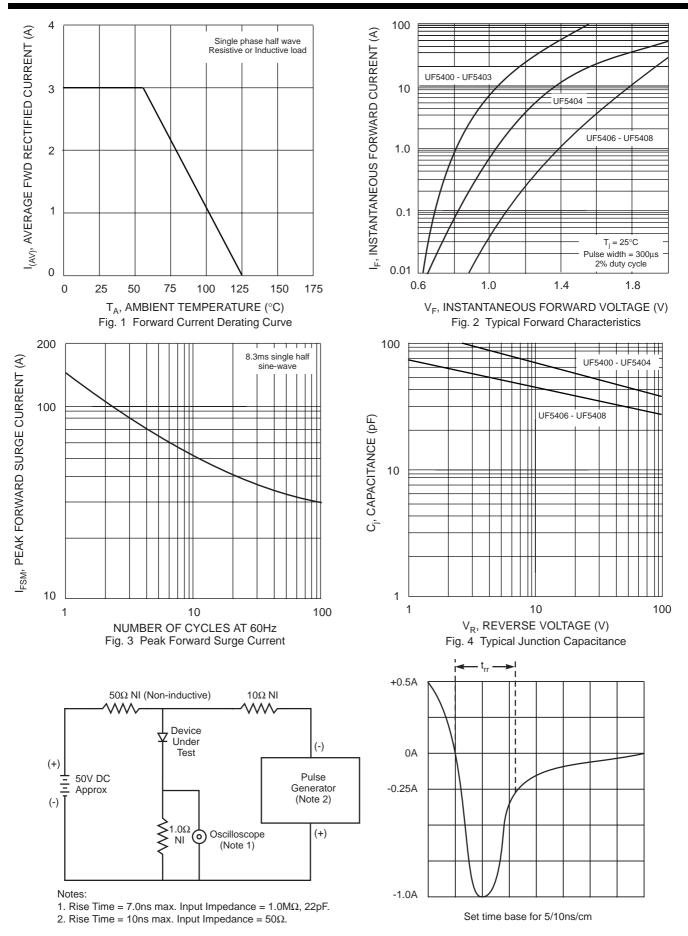


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit