UF5400 THRU UF5408

ULTRAFAST RECOVERY RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

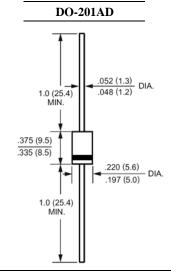
50 to 1000 VOLTS 3.0 AMPERES

FEATURES

- Plastic package has Underwriters Laboratories
 Flammability Classification 94V-0
- · Low cost
- · Ultrafast recovery time for high efficiency
- \cdot Low forward voltage, high current capability
- \cdot Low leakage
- · High surge capability

MECHANICAL DATA

Case: Molded plastic, DO-201AD Terminals: Plated axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Color band denotes cathode end Mounting position: Any Weight: 0.04ounce, 1.1gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 $^\circ\!\!\!\!^\circ$ ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	UF5400	UF5401	UF5402	UF5403	UF5404	UF5405	UF5406	UF5407	UF5408	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current	т	3.0									Amp
.375''(9.5mm) Lead Length at T _A =50°C	I _(AV)										
Peak Forward Surge Current,											
8.3ms single half-sine-wave	I _{FSM} 150										Amp
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage at 3.0A DC and 25°C	V _F	1.0 1.7								Volts	
Maximum Reverse Current at T _A =25°C	т	10.0									uAmp
at Rated DC Blocking Voltage T _A =100 °C	I _R	100									
Typical Junction Capacitance (Note 1)	CJ	45 36							pF		
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20									°C/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	50 75							nS		
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150								Ĉ	

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted with 0.8x0.8" (20x20mm) copper pads.

3- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.



RATINGS AND CHARACTERISTIC CURVES

