UF540X SERIES <u>ULTRAFAST RECOVERY RECTIFIER</u>

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UF5400 THRU UF5408

ULTRAFAST RECOVERY RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 3.0 AMPERES

FEATURES

Plastic package has Underwriters Laboratories
 Flammability Classification 94V-0

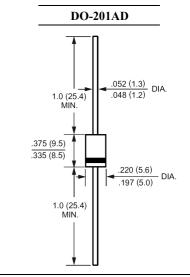
- · Low cost
- · Ultrafast recovery time for high efficiency
- · Low forward voltage, high current capability
- · Low leakage
- · High surge capability

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 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 .375"(9.5mm) Lead Length at T_A =55	I _(AV)	3.0									Amp
Peak Forward Surge Current,											
8.3ms single half-sine-wave	I _{FSM} 150									Amp	
superimposed on rated load (JEDEC method)											ı
Maximum Forward Voltage at 3.0A DC and 25	$V_{\rm F}$	1.0 1.7							Volts		
Maximum Reverse Current at T _A =25			10.0								
at Rated DC Blocking Voltage T _A =100	I_R	1000									uAmp
Typical Junction Capacitance (Note 1)	C_{J}	45 36							pF		
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20									/W
Maximum Reverse Recovery Time (Note 3)	T_{RR}	50 75							nS		
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150									

NOTES:

- 1- Measured at 1 MHz 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

