WEITRON

UF5401 thru UF5407

Axial Lead Ultra Fast Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
100 TO 800 VOLTS
FORWARD CURRENT
5.0 AMPERE

Features:

*Low forward voltage drop
*High current capability
*High reliability
*High surge current capability
*High speed switching

DO-201AD

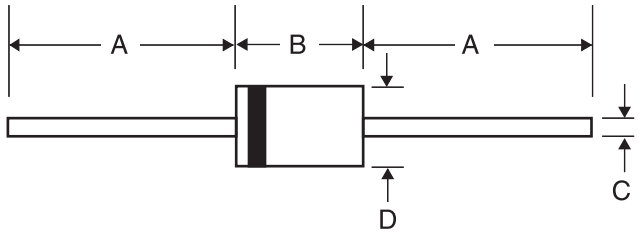
Mechanical Data:

*Case: Molded plastic
*Epoxy: UL 94V-0 rate flame retardant
*Lead: Axial leads, solderable per
*MIL-STD-202, method 208 guranteed
*Polarity: Color band denotes cathode en
*Mounting position: Any
*Weight: 1.10grams

DO-201AD Outline Dimensions

Unit:mm

Axial Device (Through-Hole)



	A		B		C		D	
Dim	Min	Max	Min	Max	Min	Max	Min	Max
DO-201AD	25.40	-	7.30	9.50	1.20	1.30	4.80	5.60

Maximum Rating

Characteristic	Symbol	UF5401	UF5402	UF5403	UF5404	UF5405	UF5406	UF5407	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	800	V
RMS Reverse Voltage	$VR_{(RMS)}$	70	140	210	280	350	420	560	V
Maximum DC Blocking Voltage	V_R	100	200	300	400	500	600	800	V
Maximum Average Forward Rectified Current See Fig.1	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150							A
Thermal Resistance	$R_{\theta JA}$	60							°C/W
Diode Junction Capacitance f=1MHz and applied 4V DC reverse voltage	C_J	75							pF
Operating Junction Temperature Range	T_J	-55 to +150							°C
Storage Junction Temperature Range	T_{STG}	-55 to +150							°C
Maximum Reverse Recovery Time [1]	T_{rr}	50				75			ns

Electrical Characteristic

Characteristic	Symbol	UF5401	UF5402	UF5403	UF5404	UF5405	UF5406	UF5407	UNIT
Maximum Instanatneous Forward Voltage I_F=5.0A	V_F	1.0			1.3	1.5		1.7	V
Maximum Instantaneous Reverse Current Rated DC Blocking Voltage, T_A=25°C Rated DC Blocking, T_A=100°C	I_R	10.0 300							uA

Notes 1. Reverse Recovery Time test condition: IF=3A, IR=1.0A, IRR=0.25A

RATINGAND CHARACTERISTIC CURVES

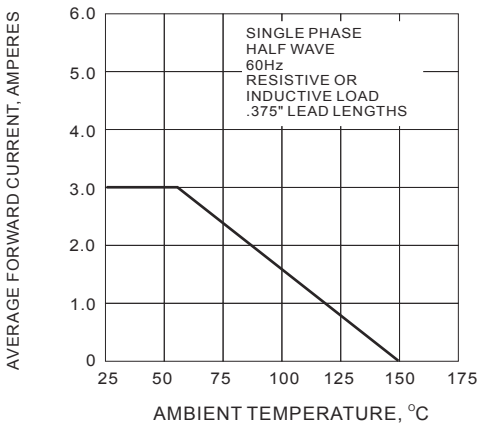


Fig. 1 - Forward Current Derating Curve

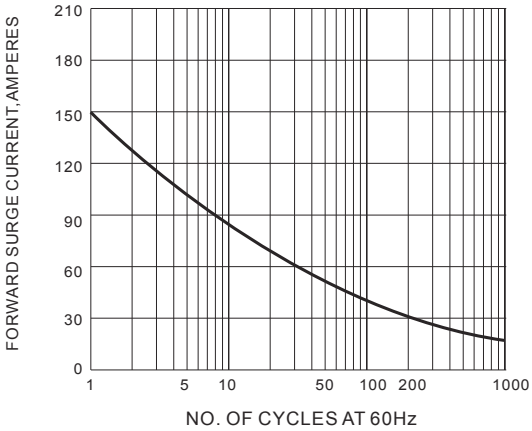


Fig. 2 - Peak Forward Surge Current

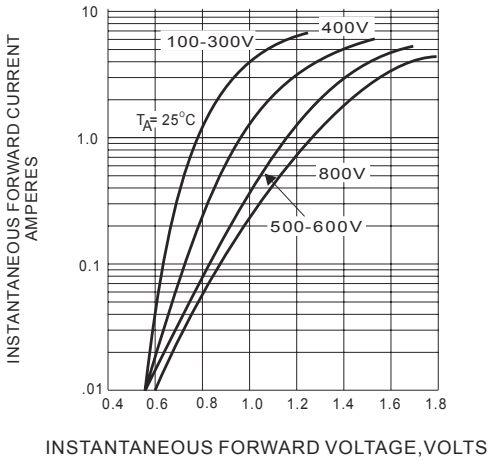


Fig. 3 - Typical Forward Characteristics

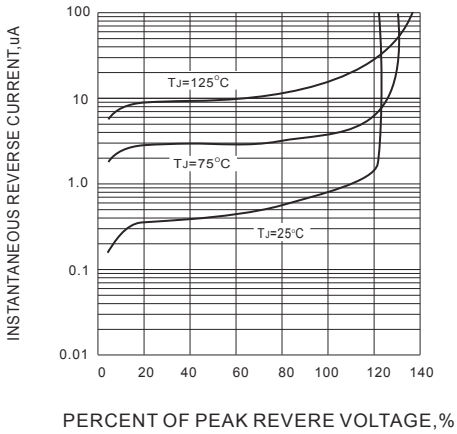


FIG.4 - Typical Reverse Leakage Characteristics