

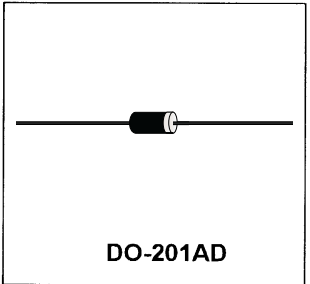
Switchmode Power Rectifiers

... Designed for use in switching power supplies, inverters and as free wheeling diodes. These state-of-the-art devices have the following features:

- * High Surge Capacity
- * Low Power Loss, High efficiency
- * Glass Passivated chip junctions
- * 150 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction
- * Low Forward Voltage , High Current Capability
- * Ultrafast 35 & 50 Nanosecond Recovery Time
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

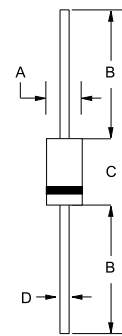
**ULTRA FAST
RECTIFIERS**

**3.0 AMPERES
50 -- 400 VOLTS**



MAXIMUM RATINGS

Characteristic	Symbol	SF						Unit
		31	32	33	34	35	36	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	150	200	300	400	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	105	140	210	280	V
Average Rectifier Forward Current	I_O	3.0						A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfwave, single phase, 60Hz)	I_{FSM}	75				50		A
Operating and Storage Junction Temperature Range	T_J, T_{stg}	- 65 to + 150						°C



DIM	MILLMETERS	
	MIN	MAX
A	5.00	5.60
B	25.40	---
C	8.50	9.50
D	1.20	1.30

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SF						Unit
		31	32	33	34	35	36	
Maximum Instantaneous Forward Voltage ($I_F=3.0$ Amp, $T_C = 25$ °C)	V_F	0.95				1.30		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$ °C) (Rated DC Voltage, $T_C = 125$ °C)	I_R	5.0 70						uA
Reverse Recovery Time ($I_F = 0.5$ A, $I_R = 1.0$, $I_{rr} = 0.25$ A)	T_{rr}	35				50		ns
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P	55				45		pF

CASE---
Transfer molded
plastic

POLARITY---
Cathode indicated
polarity band