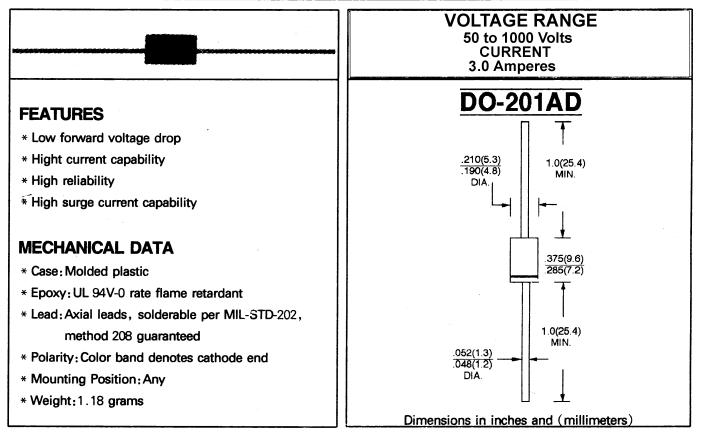


## SF31G THRU SF36G

3.0 AMPS. GLASS PASSIVATED SUPER FAST RECTIFIERS



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	SF31G	SF32G	SF33G	SF34G	SF35G	SF36G	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	v
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	v
Maximum D.C Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	v
Maximum Average Forward Current .375"(9.5mm) lead length @ $T_A = 55^{\circ}C(Note 1)$	I <sub>F(AV)</sub>	3.0						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	100					A	
Maximum Instantaneous Forward Voltage at 3.0A(Note 1)	V <sub>F</sub>	0.95 1.25					v	
Maximum D.C Reverse Current @ $T_A = 25^{\circ}C$ at Rated D.C Blocking Voltage @ $T_A = 125^{\circ}C$	I <sub>R</sub>	5.0 50					μΑ μΑ	
Maximum Reverse Recovery Time (Note 2)	T <sub>RR</sub>	35						nS
Typical Junction Capacitance (Note 3)	CJ	-	100 50					pF
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>		- 65 to + 150					

**NOTES:** 1. Each Lead mounted on a  $0.8 \times 0.8 \times 0.04''(20 \times 20 \times 1 \text{ mm})$  copper heat – sink.

2. Reverse Recovery Test Conditions:  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .

3. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.



