

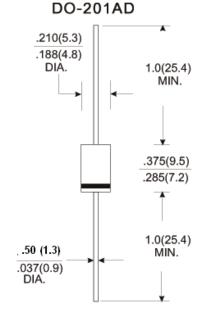
3 A Super Fast Rectifiers SF31 THRU SF38 50 to 600 V 3.0 A

FEATURES

- Low forward voltage drop
- · High current capability
- High reliability
- · High surge current capability

MECHANICAL DATA

- · Case: Molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL- STD-202, Method 208 guaranteed
- · Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Weight: 1.2 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°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	SF31	SF32	SF33	SF34	SF35	SF36	SF38	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current. 375" (9.5mm) Lead Length @ T _A =55°C	I _(AV)	3.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	125							Amp
Maximum Forward Voltage @3.0A	V _F	0.95				1.3		1.7	Volts
Maximum Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	5.0 100							uAmp
Maximum Reverse Recovery Time (Note 1)	TRR	35							nS
Typical Junction Capacitance (Note 2)	CJ	100 80					80		pF
Operating Temperature Range T _J	T_J	-55 to +150							$^{\circ}\mathbb{C}$
Storage Temperature Range T _{STG}	T _{STG}	-55 to +150							\mathbb{C}

NOTES:

- 1. Reverse Recovery Test Conditions: I F =0.5A, I R =1.0A, I RR =0.25A
- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 3. Thermal Resistance Junction To Ambient



3 A Super Fast Rectifiers SF31 THRU SF38 50 to 600 V 3.0 A

RATINGS AND CHARACTERISTIC CURVES (SF31 THRU SF38)

