

3.0 AMP. Super Fast Rectifiers

Features

- · Low forward voltage drop
- · High current capability
- · High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic DO-201AD
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

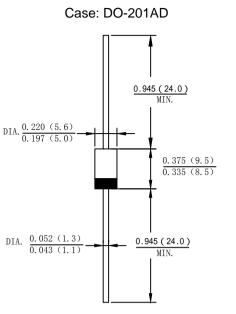
Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SF31U	SF32U	SF33U	SF34U	SF35U	SF36U	SF38U	Unit
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	600	V
Maximum RMS Voltage	Vrms	35	70	104	140	210	280	420	V
Maximum DC Blocking Voltage	Vdc	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length @T∟=100℃	IF(AV)	3.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	150							А
I ² t Rating for Fusing (t < 8.3ms)	l²t	93.375						A ² S	
Forward Voltage @IF=3.0A	Vfm	0.95 1.3 1.7						V	
Peak Reverse Current @T _A =25°C	1-	5.0							uA
At Rated DC Blocking Voltage @T _A =125°C	IR 100								
Typical Junction Capacitance (Note 1)	CJ	50 2					25		pF
Typical Thermal Resistance Junction to Ambient	Reja	70							°C/W
Maximum Reverse Recovery Time(Note 3)	Trr	35							ns
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

Note:1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A



Dimensions in inches and (millimeters)



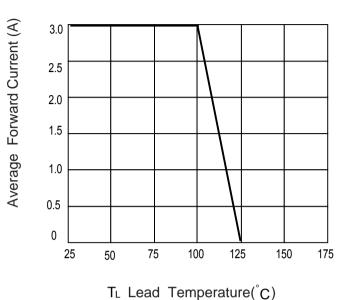
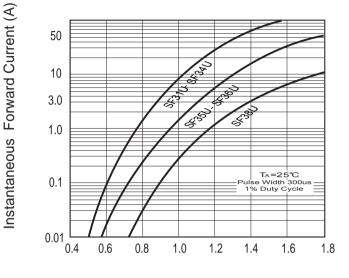


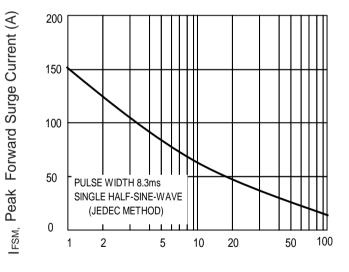
Fig. 1 Forward Current Derating Curve

Fig. 2 Typ. Forward Characteristics



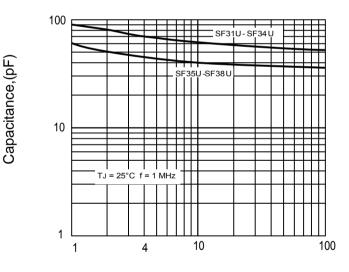
V_F, Instantaneous Forward Voltage (V)





Number Of Cycles At 60 Hz

Fig.4 Typical Junction Capacitance



V_R, Reverse Voltage (V)



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