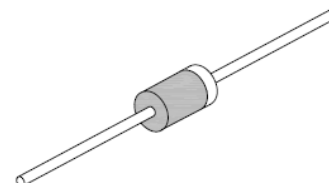


3.0A Fast Recovery Rectifier

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds
.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



DO-201AD



Mechanical Data

Case:	DO-201AD, molded plastic
Epoxy:	UL 94V-0 rate flame retardant
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
Polarity:	Color band denotes cathode end
Weight:	1.2 grams

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Description	TF 301	TF 302	TF 303	TF 304	TF 305	TF 306	TF 307	Unit	Conditions
		FR 301	FR 302	FR 303	FR 304	FR 305	FR 306	FR 307		
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{AV}	Maximum Average Forward Rectified Current	3.0							A	Ta=55 °C
I_{FSM}	Peak Forward Surge Current	200							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

3.0A Fast Recovery Rectifier

TF301 - TF307/FR301 - FR307

Symbol	Description	TF 301	TF 302	TF 303	TF 304	TF 305	TF 306	TF 307	Unit	Conditions
		FR 301	FR 302	FR 303	FR 304	FR 305	FR 306	FR 307		
V _F	Maximum Instantaneous Forward Voltage	1.3							V	I _F =3.0 A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	10							μA	T _A =25° C
		150								T _A =100° C
T _{rr}	Typical Reverse Recovery Time	150				250	500		nS	I _F =0.5A, I _R =1A, I _{rr} =0.25A
C _J	Typical Junction Capacitance	60							pF	V _R =4V, f=1MHz
T _J	Operating Temperature range	-55 to +125							° C	
T _{STG}	Storage Temperature Range	-55 to +150								

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

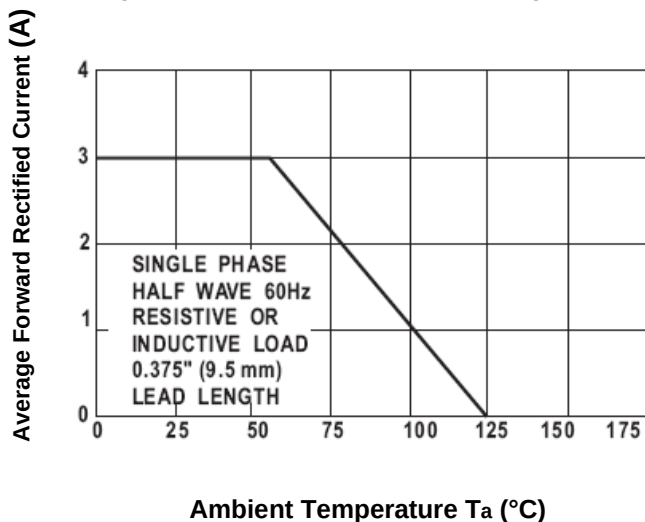
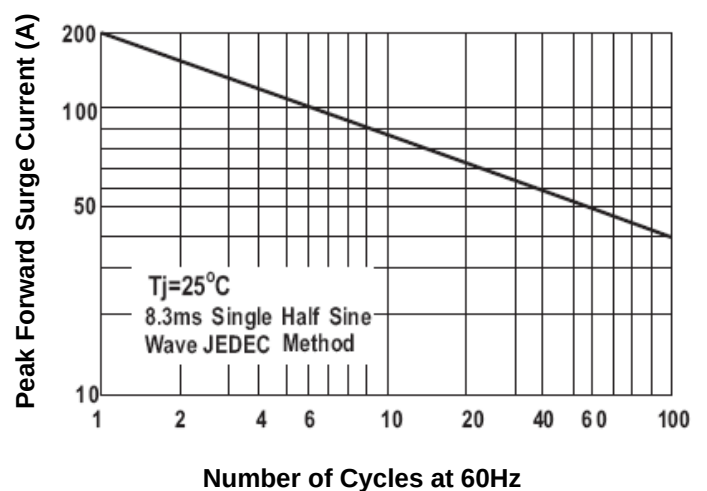


Fig.2-Max. Non-Repetitive Forward Surge Current



3.0A Fast Recovery Rectifier

TF301 - TF307/FR301 - FR307

Fig.3- Typical Forward Characteristics

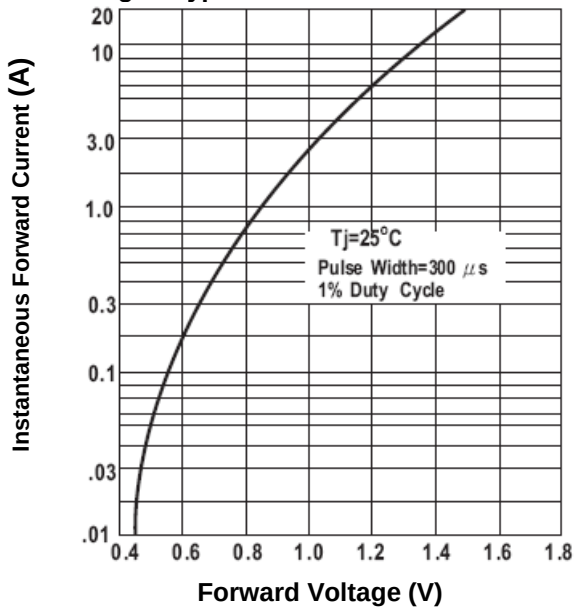
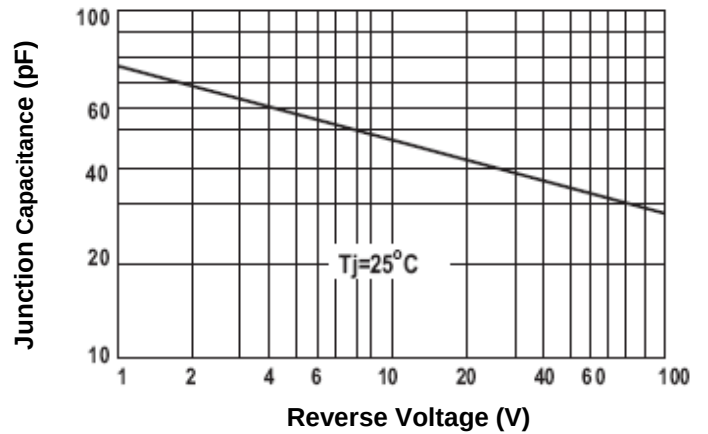
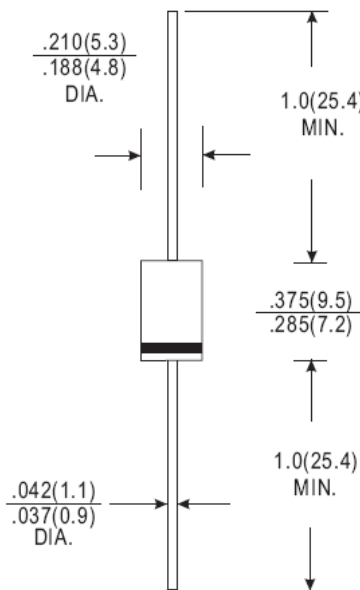


Fig.4- Typical Junction Capacitance



Dimensions in inches (mm)



DO-201AD

3.0A Fast Recovery Rectifier

TF301 - TF307/FR301 - FR307

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