

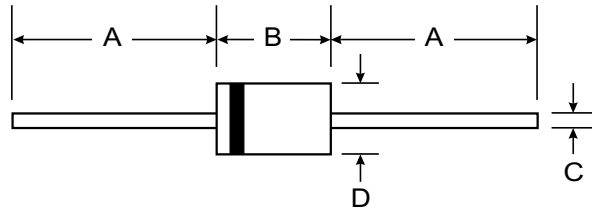
SUPER FAST RECTIFIERS

VOLTAGE RANGE: 50 --- 200 V

CURRENT: 6.0A

Features

- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Super-Fast Switching Speed < 35ns
- Plastic Material - U/L Flammability Classification 94V-0



Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Denotes Cathode
- Approx. Weight: 1.2 grams
- Mounting Position: Any

DO-201AD		
Dim	Min	Max
A	25.4	—
B	—	9.5
C	1.2	1.3
D	4.8	5.2
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.

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

For capacitive load, derate current 20%.

Characteristic	Symbol	SF61	SF62	SF63	SF64	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	V
Maximum DC Blocking voltage	V _{DC}	50	100	150	200	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ T _A =55°C	I _(AV)	6.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FM}	150				A
Maximum Instantaneous Forward Voltage @ 6.0A DC	V _F	1.0				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10				μA
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _A = 150°C	I _R	150				μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35				ns
Typical Junction Capacitance (Note 2)	C _J	170				pF
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 175				°C

- Notes: 1. Reverse Recovery Test Conditions: I_F =0.5 A, I_R =1.0 A, I_{RR}=0.25A
 2. Measured at 1 MHz and applied reverse voltage of 4.0V.

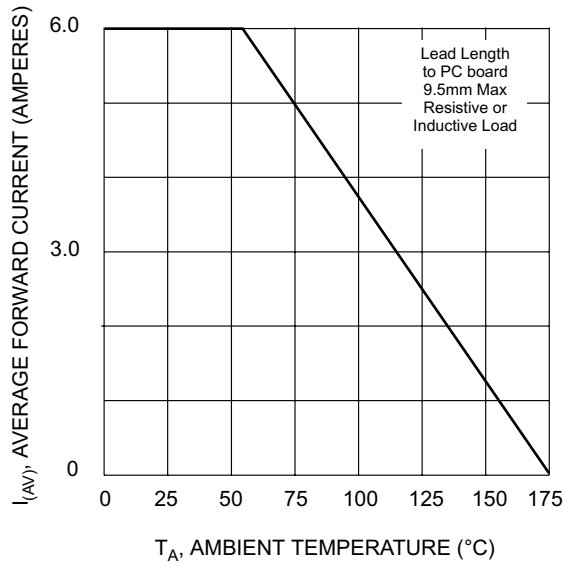


Fig. 1, Typical Fwd Current Derating Curve

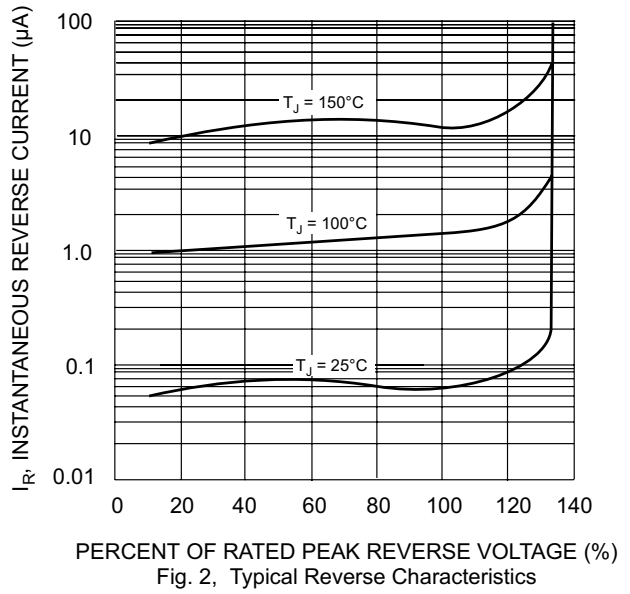


Fig. 2, Typical Reverse Characteristics

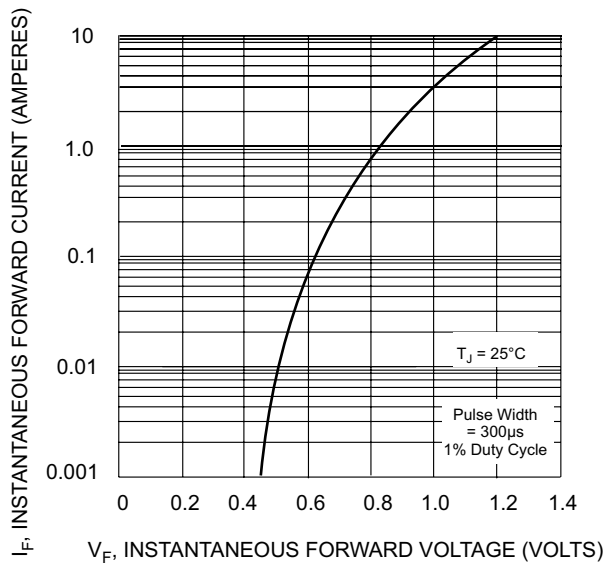


Fig. 3, Typical Instantaneous Fwd Characteristics

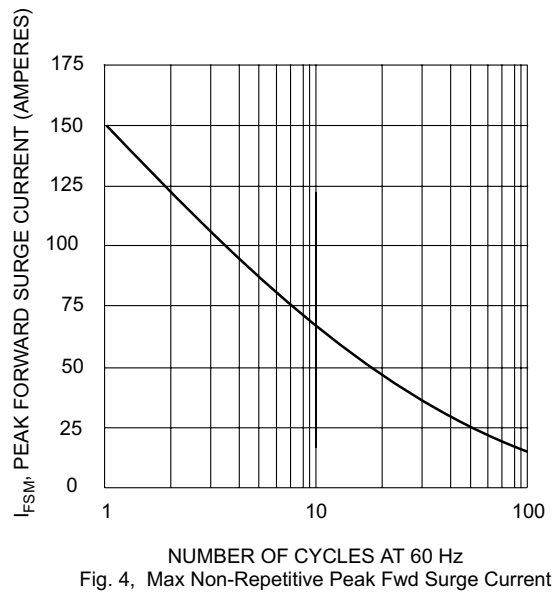


Fig. 4, Max Non-Repetitive Peak Fwd Surge Current

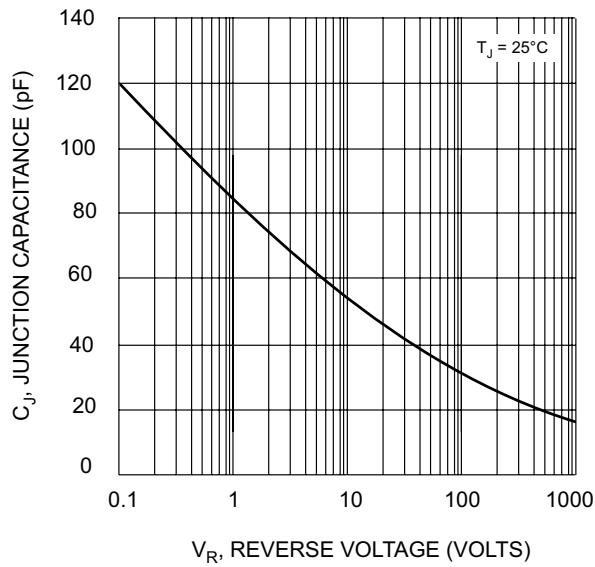


Fig. 5, Typical Junction Capacitance