SEMICONDUCTOR

6.0A SUPER-FAST RECTIFIER

Data Sheet 2626 Rev.—

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band
 Weight: 1.2 grams (approx.)
 Mounting Position: Any
 Marking: Type Number

Epoxy: UL 94V-O rate flame retardant

DO-201AD							
Dim	Min	Max					
Α	1.000(25.40)	_					
В	0.334(8.50)	0.374(9.50)					
С	0.047(1.20)	0.051(1.30)					
D	0.197(5.00)	0.220(5.60)					
All Dimensions in inch (mm)							

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	SF61	SF62	SF63	SF64	SF65	SF66	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	150	200	300	400	V
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	٧
Average Rectified Output Current (Note 1) @T _A = 50°C		lo	6.0						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	150						А
Forward Voltage	@I _F = 6.0A	VFM	0.975 1.3			٧			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C		lгм	5.0 100						μΑ
Reverse Recovery Time (Note 2)		trr	35						nS
Typical Junction Capacitance (Note 3)		Cj	120 60				0	pF	
Operating Temperature Range		Tj	-65 to +125						°C
Storage Temperature Range		Тѕтс	-65 to +150						°C

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 1.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

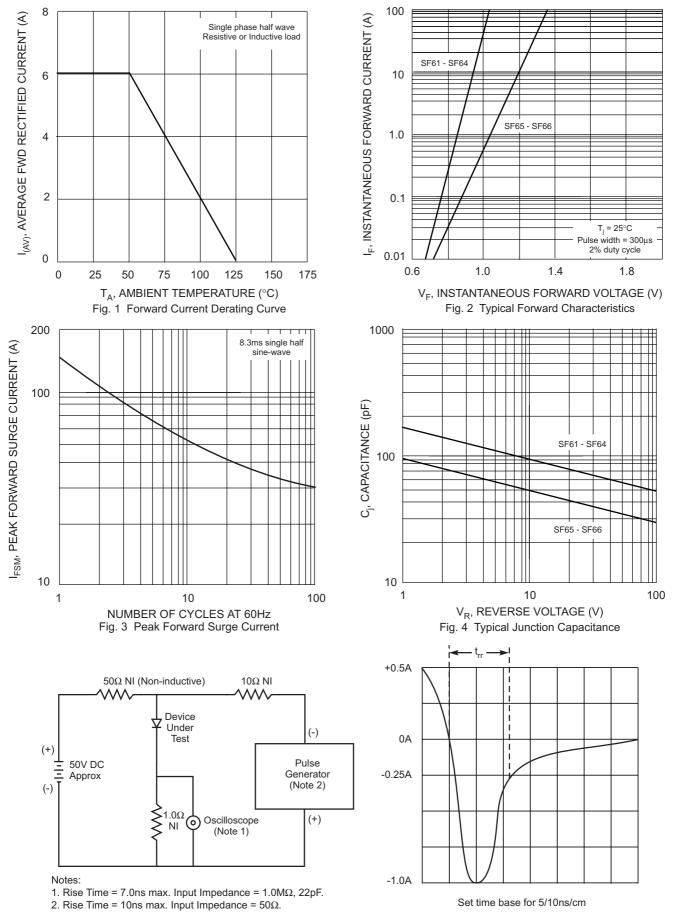


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



TECHNICAL DATA

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.