

SF11G THRU SF18G

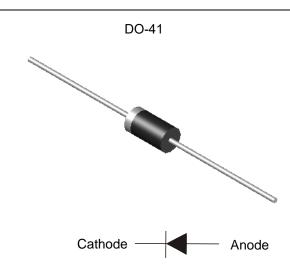
1.0AMP Surface Mount Super Fast Recovery Rectifier

1. Features

- · Glass passivated chip junction
- Low leakage current
- Low forward voltage drop.
- High current capability.
- High reliability.
- Super Fast reverse recovery time.
- Meets MSL level 1, per J-STD-020.

2. Mechanical Data

- · Case:Molded Plastic,DO-41.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking:marked on body.



3. Maximum Ratings and Electrical Characteristics

Electrical Characteristics Rating at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified.

				r				
SYMBOL	SF11G	SF12G	SF13G	SF14G	SF15G	SF16G	SF18G	UNIT
Vrrm	50	100	150	200	300	400	600	V
Vrms	35	70	105	140	210	280	420	V
Vdc	50	100	150	200	300	400	600	V
IF(AV)	1.0			А				
Ifsm				35 28				A
Ifsm				70 56				A
l ² t				5.08				A ² S
Vfm	0.95 1.3 1.7			V				
lr	5.0 100			uA				
Trr				35				ns
Cj			20			7		pF
Reja				65				
Rejl	15					°C/W		
Rejc	10							
Tj	-55 to+150			°C				
Tstg				-55 to+150				ĉ
	VRRM VRMS VDC IF(AV) IFSM IFSM IFSM IFSM IR IR IR Cj RØJA RØJL RØJL RØJC Tj	VRRM 50 VRMS 35 VDC 50 IF(AV)	VRRM 50 100 VRMS 35 70 VDC 50 100 IF(AV)	VRRM 50 100 150 VRMS 35 70 105 VDC 50 100 150 IF(AV)	VRRM 50 100 150 200 VRMS 35 70 105 140 VDC 50 100 150 200 IF(AV) 50 100 150 200 IFSM 70 56 28 70 IFSM 70 56 50 100 56 IFSM 5.08 70 56 100 100 100 100 100 100 100 100 100 15 65 65 65 65 65 15 15 15 10 15 10 15 10 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10	VRRM 50 100 150 200 300 VRMS 35 70 105 140 210 VDC 50 100 150 200 300 IF(AV) 50 100 150 200 300 IFSM 70 56 28 50 10 IFSM 5.08 70 56 1 IR 5.08 70 1 100 1 IR 5.08 100 1 1 1 IR 20 50 1 1 1 R6JA 65 15 15 10 15 R6JC 10 10 15 10 10	VRM 50 100 150 200 300 400 VRMS 35 70 105 140 210 280 VDC 50 100 150 200 300 400 IF(AV) 50 100 50 50 50 50 50 IFSM 5.0 1.3 50 1.3 50 100 50 <td>VRRM 50 100 150 200 300 400 600 VRMS 35 70 105 140 210 280 420 VDC 50 100 150 200 300 400 600 IF(AV) 1.0 200 300 400 600 IF(AV) 1.0 200 300 400 600 IF(AV) 35 28</td>	VRRM 50 100 150 200 300 400 600 VRMS 35 70 105 140 210 280 420 VDC 50 100 150 200 300 400 600 IF(AV) 1.0 200 300 400 600 IF(AV) 1.0 200 300 400 600 IF(AV) 35 28

Note:

1. Reverse RecoveryTest Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

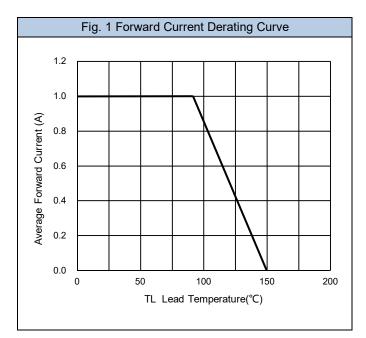
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

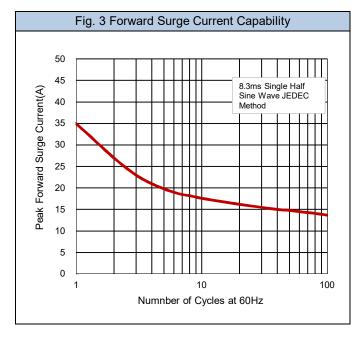


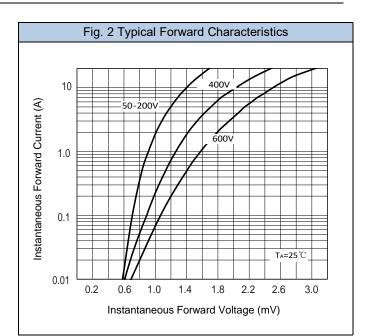
SF11G THRU SF18G

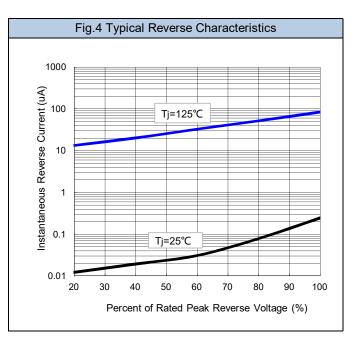
1.0AMP Surface Mount Super Fast Recovery Rectifier

4. Rating And Characteristic Curves





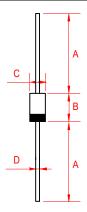






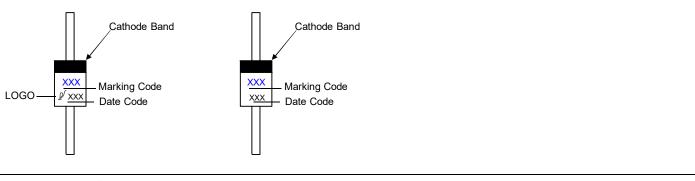
1.0AMP Surface Mount Super Fast Recovery Rectifier

5. Dimensions



	Dimensions	Inc	hes	Millimeters		
		Min	Max	Min	Max	
	А	1.0	/	25.4	/	
	В	/	0.205	/	5.2	
	С	0.079	0.118	2.0	3.0	
	D	0.024	0.031	0.6	0.8	

6. Part Marking System



7. Package Information

Package	Packing
DO-41	5000 / Tape & Reel



1.0AMP Surface Mount Super Fast Recovery Rectifier

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without from XINNUO.
- XINNUO reserves the right to make changes to this document and its products and specifications.
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown her are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.