

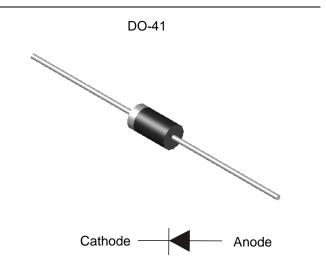
1.0AMP Fast Recovery Rectifier

1. Features

- · Glass passivated chip junction
- · Low leakage current
- · Low forward voltage drop.
- · High current capability.
- · High reliability.
- Fast switching for fast recovery
- 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°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	FR101G	FR102G	FR103G	FR104G	FR105G	FR106G	FR107G	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @TL=90°C	IF(AV)	1.0						Α	
Peak Forward Surge Current 8.3ms @Tj=25°C		35							
Single half sine-wave superimposed @Tj=125°C	IFSM	зм 28						Α	
on rated load (JEDEC Method)									
I ² t Rating for Fusing (t < 8.3ms)	l ² t	5.08					A ² S		
Maximum Instantaneous Forward Voltage @IF=1A	Vғм	1.3					٧		
Maximum DC reverse current @Tj=25°C	lr	5.0						uA	
at rated DC blocking voltage @Tj=125°C	IK	100							
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500)	ns		
Typical Junction Capacitance (Note 2)	Cj	7					pF		
	Reja 65								
Typical Thermal Resistance	ReJL 15					°C/W			
	Rejc	5							
Operating Temperature Range	Tj	-55 to+150					$^{\circ}$		
Storage Temperature Range	Тѕтс	-55 to+150				$^{\circ}$			

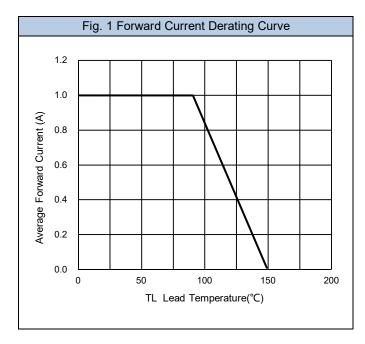
Note:

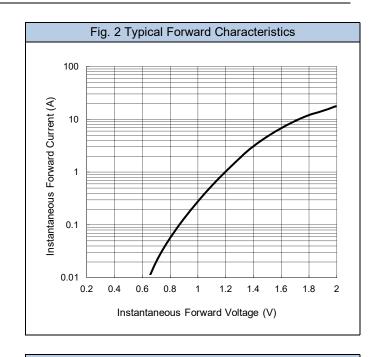
- 1. Reverse RecoveryTest Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

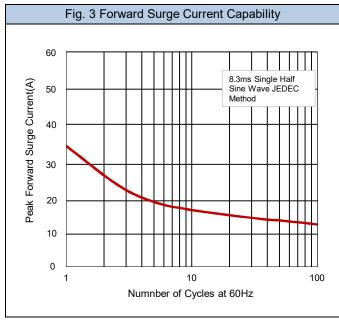


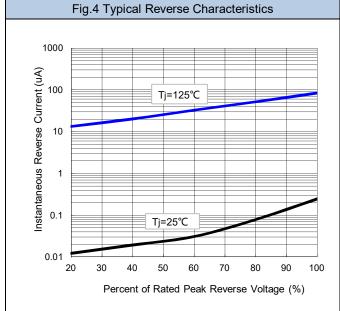
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4. Rating And Characteristic Curves





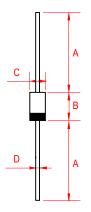






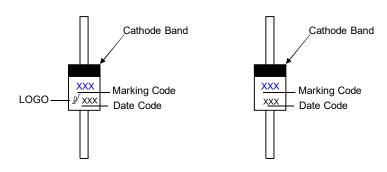
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5. Dimensions



Dimensions	Inc	hes	Millimeters		
Difficitsions	Min	Max	Min	Max	
А	1.0	1	25.4	1	
В	/	0.205	1	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



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