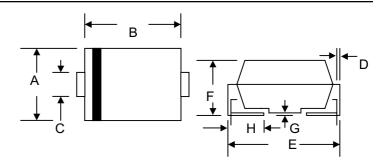
SEMICONDUCTOR

1.0A SURFACE MOUNT FAST RECOVERY RECTIFIER

Data Sheet 2705, Rev.—

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

Case: Molded Plastic

Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026

- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)

SMB/DO-214AA									
Dim	Min	Max	Min	Max					
Α	3.30	3.94	0.130	0.155					
В	4.06	4.70	0.160	0.185					
С	1.91	2.11	0.075	0.083					
D	0.152	0.305	0.006	0.012					
Е	5.08	5.59	0.2	0.220					
F	2.13	2.44	0.084	0.096					
G	0.051	0.203	0.002	0.008					
Н	0.76	1.27	0.029	0.05					
•	in ı	mm	In inch						

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

Characteristic		Symbol	FR1A	FR1B	FR1D	FR1G	FR1J	FR1K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	200	400	600	800	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	V
Average Rectified Output Current	lo	1.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30						А
Forward Voltage @I _F = 1.0A		VFM	1.30						V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C		IRM	5.0 300						μΑ
Reverse Recovery Time (Note 1)		trr	150 250 500				500	nS	
Typical Junction Capacitance (Note 2)		Cj	10						pF
Typical Thermal Resistance (Note 3)		$R_{ heta}$ JL	30					K/W	
Operating and Storage Temperature Range		Тj, Tsтg	-50 to +150					°C	

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.

• 221 West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798 •

[•] World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •

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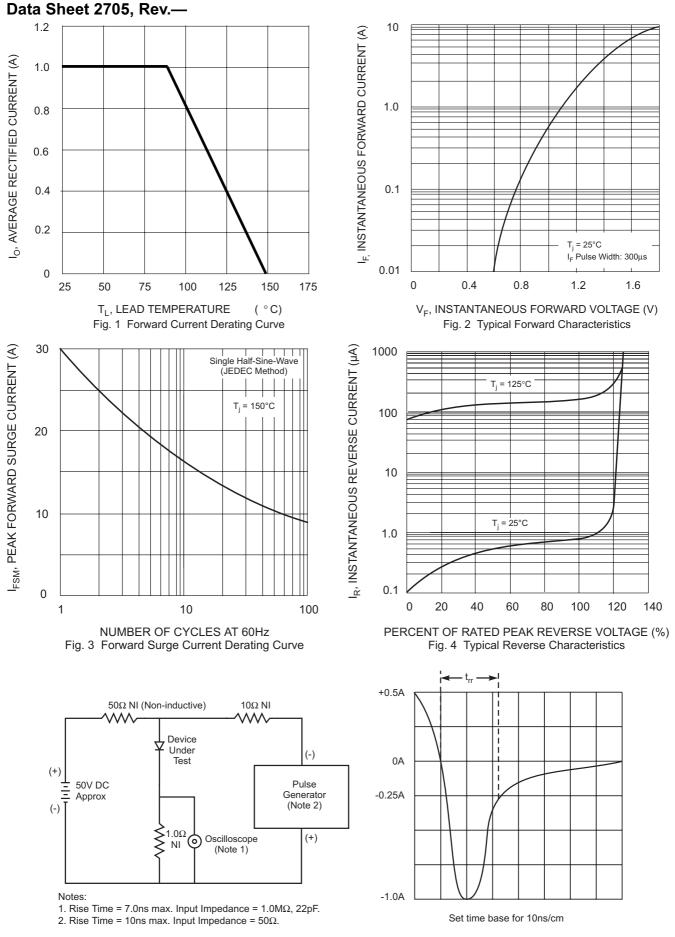


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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