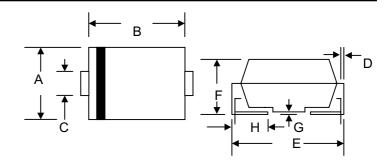
SEMICONDUCTOR

1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Data Sheet 2559 Rev.—

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Built-in Strain Relief
- 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					
Α	0.130(3.30)	0.155(3.94)					
В	0.160(4.06)	0.185(4.70)					
С	0.075(1.91)	0.083(2.11)					
D	0.006(0.15)	0.012(0.31)					
E	0.200(5.08)	0.220(5.59)					
F	0.084(2.13)	0.096(2.44)					
G	0.002(0.05)	0.008(0.20)					
Н	0.030(0.76)	0.050(1.27)					
All Dimensions in inch(mm)							

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

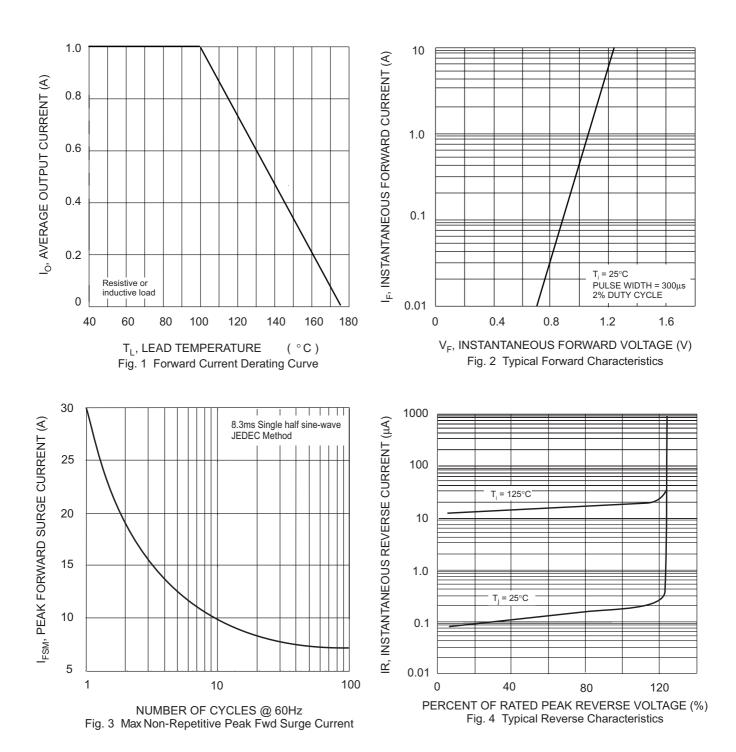
Characteristic	Symbol	S1AB	S1BB	S1DB	S1GB	S1JB	S1KB	S1MB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L = 100°C	lo	1.0							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				1.10				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	lгм	5.0 200							μA
Reverse Recovery Time (Note 1)	trr	2.5							μS
Typical Junction Capacitance (Note 2)	Cj	15							pF
Typical Thermal Resistance (Note 3)	$R_{ heta}$ JL	30							K/W
Operating and Storage Temperature Range	Tj, Tstg	-65 to +175							°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.

S1AB – S1MB 1 of 2 http://www.sensitron.com





TECHNICAL DATA

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