



Micro Commercial Components



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# RS1001

# THRU

# RS1007

## Features

- Low Forward Voltage Drop
- Ideal For Printer Circuit Boards
- High Current Capability and High Reliability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- UL Recognized File # E165989

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

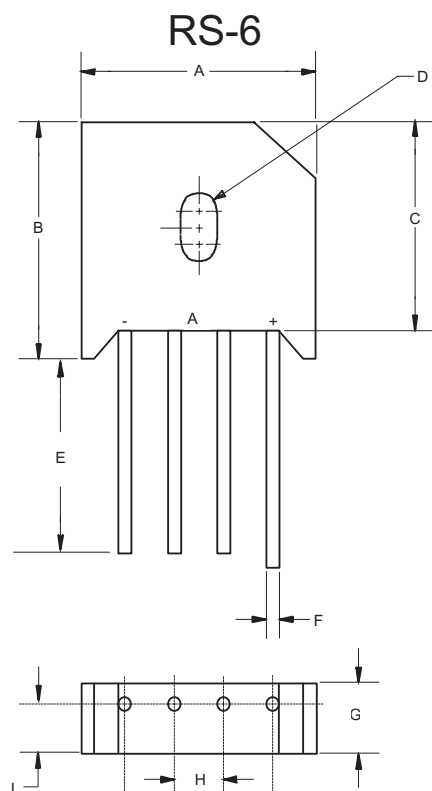
Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RS1001	RS1001	50V	35V	50V
RS1002	RS1002	100V	70V	100V
RS1003	RS1003	200V	140V	200V
RS1004	RS1004	400V	280V	400V
RS1005	RS1005	600V	420V	600V
RS1006	RS1006	800V	560V	800V
RS1007	RS1007	1000V	700V	1000v

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	$T_c = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	250A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.0V	$I_{FM} = 5.0A$ ; $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10μA 300mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

\*Pulse test: Pulse width 300 μsec, Duty cycle 1%

## 10 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.895	.935	22.70	23.70	
B	---	.760	---	19.30	
C	.660	.728	16.80	18.50	
D	.150 x	.23L	3.80 x	5.57L	HOLE
E	.787	---	20.00	---	
F	.048	.052	1.20	1.30	TYP
G	.260	.280	6.60	7.10	
H	.180	.220	4.60	5.60	
I	.181	.205	4.60	5.20	

# RS1001 thru RS1007

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

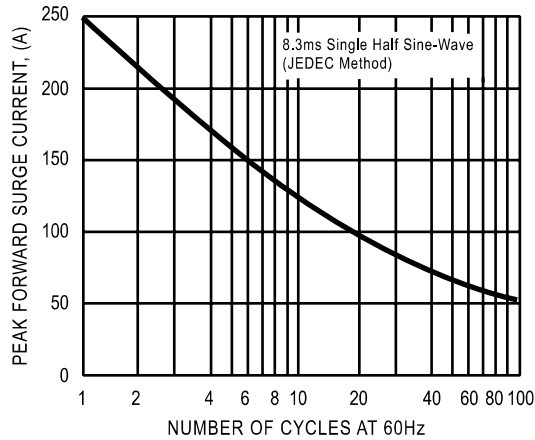


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

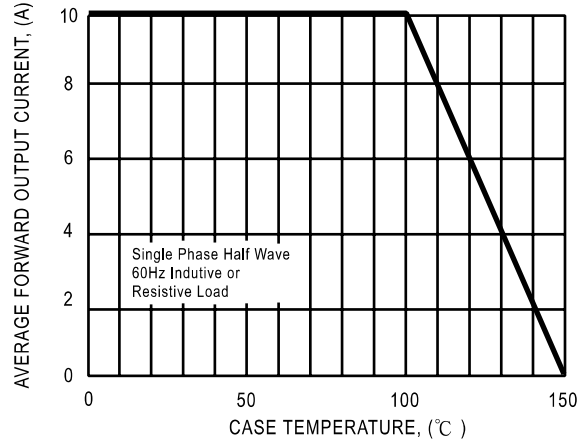


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

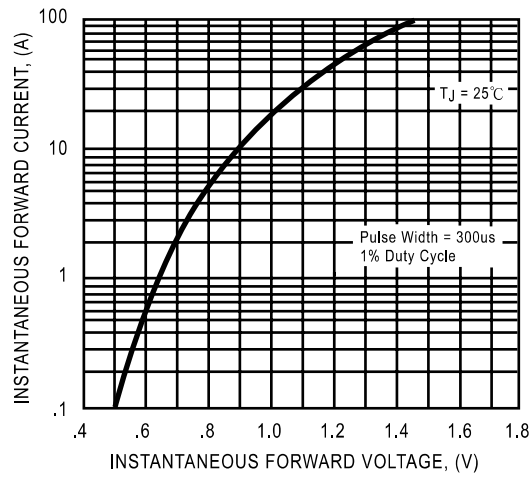
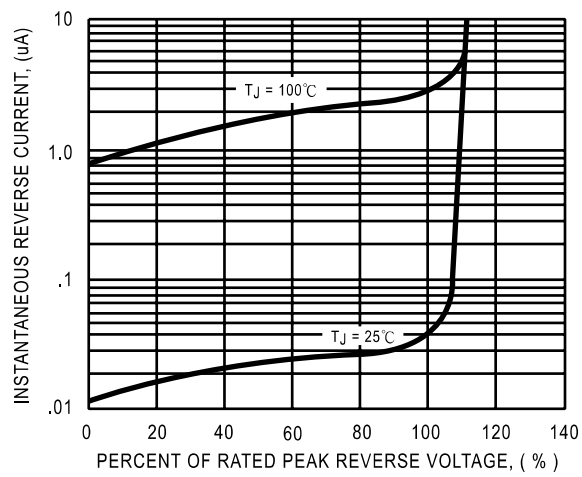


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



## Ordering Information :

Device	Packing
(Part Number) -BP	Bulk: 400pcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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