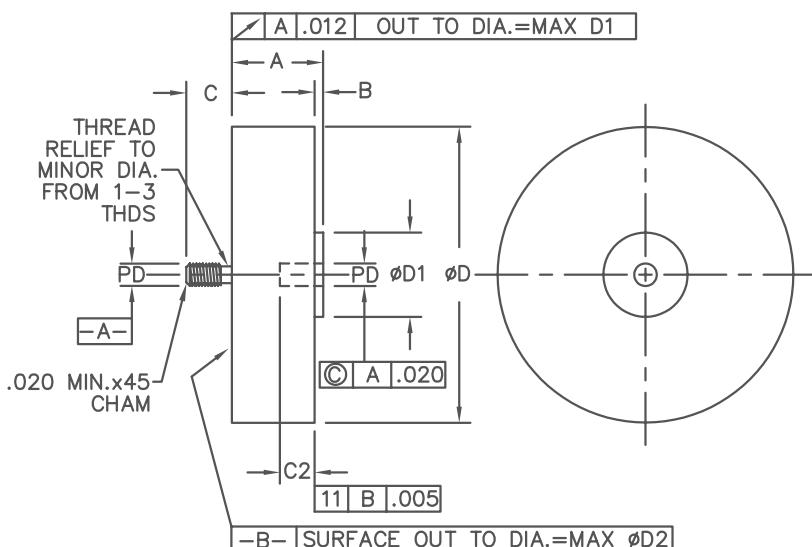


High Voltage Stacks 1N5597, 1N5600 & 1N5603



1N5597 & 1N5600

Dim. Inches		Millimeter			
Minimum	Maximum	Minimum	Maximum	Notes	
A	.73	.83	18.54	21.08	8
B	---	.080	---	2.03	
C	.240	.264	6.10	6.71	2,6
C1	.265	.400	6.73	10.16	4
D	1.85	1.95	46.99	49.53	
D1	.57	.67	14.48	17.02	

1N5603

Dim. Inches		Millimeter			
Minimum	Maximum	Minimum	Maximum	Notes	
A	.970	1.020	24.64	25.91	8
B	.050	.080	1.27	2.03	
C	.307	7.80	.317	8.05	3
C1	.318	.400	8.08	10.16	5,7
D	3.450	3.650	87.63	92.71	
D1	.95	1.250	24.13	31.75	

Notes:

- All marking shall be on cathode side of module.
- Threaded stud 1/4-28UNF-2A.
- Threaded stud 3/8-24UNF-2A.
- Threaded insert 1/4-28UNF-2B.
- Threaded insert 3/8-24UNF-2B.
- Cathode connected to terminal 2.
- Cathode connected to terminal 1.
- Module contour within dimension A is not specified.

Microsemi Catalog Number	Working Reverse Voltage	Peak DC Output Current
1N5597	10kV	1A
1N5600	5kV	2A
1N5603	5kV	5A

- High rel screening available
- V_{RRM} to 10kV
- Only fused-in-glass diodes used
- 150°C junction temperature
- Surge ratings to 200A
- Controlled avalanche characteristics
- MIL-PRF-19500 Similarity

Electrical Characteristics

	1N5597	1N5600	1N5603
Maximum DC output current-T _C = 75°C	I _O	1A	2A
Maximum surge current-T _C = 75°C	I _{FSM}	30A	80A
Max peak reverse voltage	I _{RM}	10kV	5kV
Min peak forward voltage @ 25°C	V _{FM}	13V @ 1A*	6V @ 2A*
Max peak forward voltage @ 25°C	V _{FM}	19V @ 1A*	10V @ 2A*
Max peak reverse current @ 25°C, at V _{rrm}	I _{RM}	1 uA	5 uA
Max peak reverse current @ 100°C, at V _{rrm}	I _{RM}	75 uA	100 uA
Max capacitance @ 100V	C _J	30 pF	30 pF

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	T _{STG}	-65°C to 150°C	
Operating junction temp range	T _J	-65°C to 150°C	
Weight - typical		60 grams	60 grams

200 grams	200 grams
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1N5597, 1N5600, 1N5603

Figure 1
Typical Forward Voltage vs. Forward Current

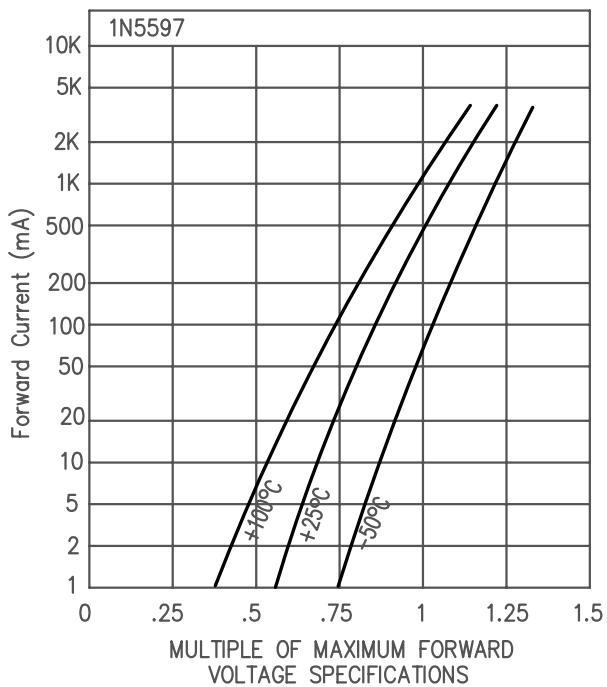


Figure 3
Typical Forward Voltage vs. Forward Current

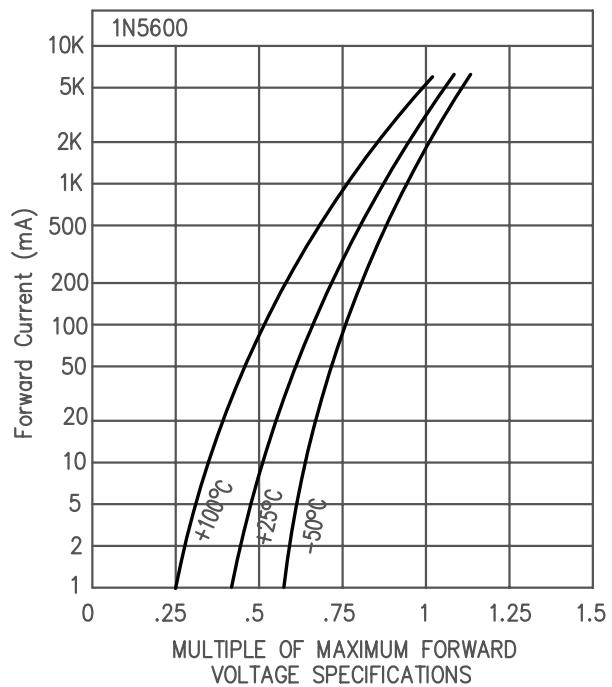


Figure 2
Typical Forward Voltage vs. Forward Current

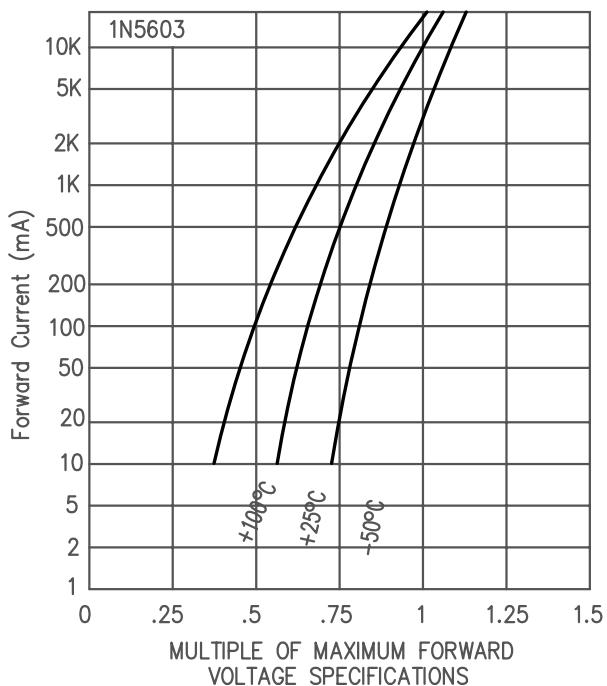
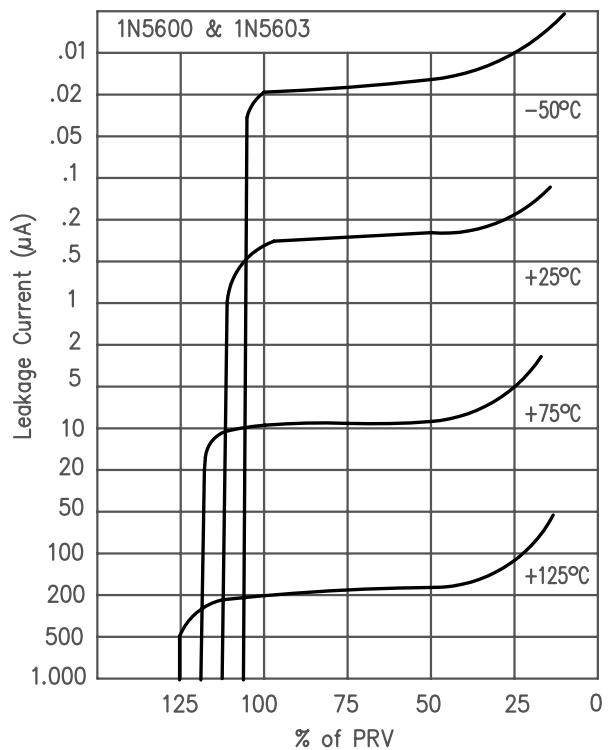


Figure 4
Typical Leakage Current vs. PRV



1N5597, 1N5600, 1N5603

