

FEATURES

- Qualified to MIL-S-19500/404A
- PIV: to 10kV
- Surge Ratings: to 200A
- Current Ratings: to 5A
- Only Fused-in-Glass Diodes Used
- Controlled Avalanche Characteristics
- Modular Package For Easy Stacking

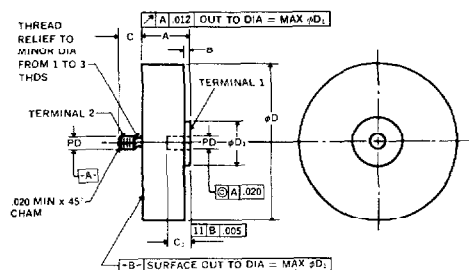
DESCRIPTION

This series of military high-voltage high-current stacks offers the utmost in reliability as required in military system designs. The rectifiers are assembled with diodes which have been subjected to TX type screening tests.

ABSOLUTE MAXIMUM RATINGS

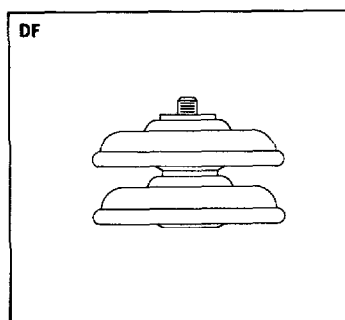
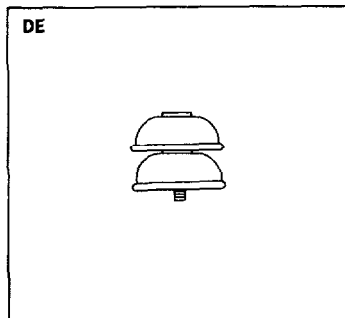
ABSOLUTE MAXIMUM RATINGS			
	JAN 1N5597	JAN 1N5600	JAN 1N5603
Peak Inverse Voltage	10kV	5kV	5kV
Maximum Average D.C. Output Current			
@ $T_C = 75^\circ\text{C}$	1A	2A	5A
Non-Repetitive Sinusoidal Surge (8.3ms)			
@ $T_C = 75^\circ\text{C}$	30A	80A	200A
Operating and Storage Temperature Range, T_C	-65°C to +150°C		

MECHANICAL SPECIFICATIONS



JAN 1N5597		JAN 1N5600		
Ltr	Dimensions in inches with metric equivalents (mm) in parentheses		NOTES	
	Minimum	Maximum		
A	.73 (18.54)	.83 (21.08)	8	
B		.080 (2.03)		
C	.240 (6.10)	.264 (6.71)	2, 6	
C ₁	.265 (6.73)	.400 (10.16)	4	
eD	1.85 (46.99)	1.95 (49.53)		
eD ₁	.57 (14.48)	.67 (17.02)		

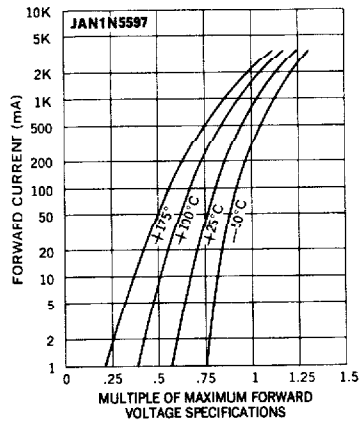
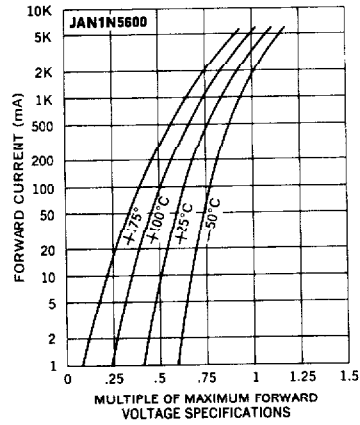
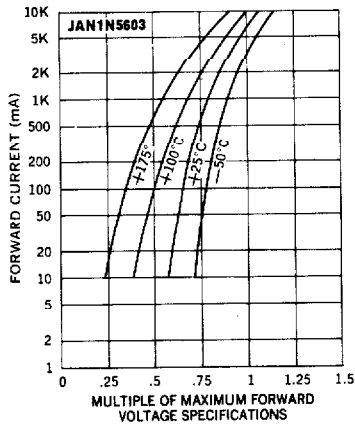
JAN 1N5603			
Ltr	Dimensions in inches with metric equivalents (mm) in parentheses		NOTES
	Minimum	Maximum	
A	.970 (24.64)	1.020 (25.91)	8
B	.050 (1.27)	.080 (2.03)	
C	.307 (7.80)	.317 (8.05)	3 5,7
C ₁	.318 (8.08)	.400 (10.16)	
φD	3.650 (87.63)	3.650 (92.71)	
φD ₁	.95 (24.13)	1.250 (31.75)	



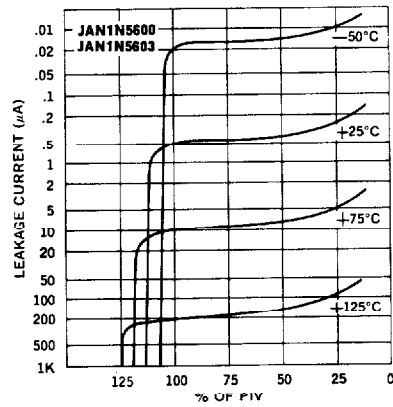
1. All marking shall be on cathode side of module.
2. Threaded stud 1/4-28UNF-2A.
3. Increased stud 3/8-24UNF-2A.
4. Threaded insert 1/4-28UNF-2B.
5. Threaded insert 3/8-24UNF-2B.
6. Cathode connected to terminal 2.
7. Cathode connected to terminal 1.
8. Module contour within dimension A is not specified.

Electrical Specifications (at 25°C unless noted)

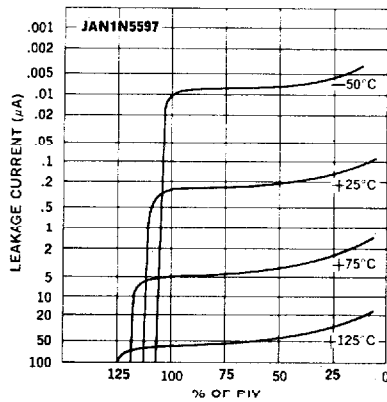
Type	PIV kV	Forward Voltage Drop		Maximum Leakage Current @ PIV		Capacitance @ $V_R = 100V$		Maximum Reverse Transient Energy Absorption joules
		Min.	Max.	$T_A = 25^\circ C$	$T_A = 100^\circ C$	Min.	Max.	
				μA	μA	pf	pf	
JAN 1N5597	10	13V @ 1A	19V @ 1A	1	75	5	30	2
JAN 1N5600	5	6V @ 2A	10V @ 2A	5	100	7	30	6
JAN 1N5603	5	6V @ 5A	10V @ 5A	5	100	15	40	12

Typical Forward Voltage
vs. Forward CurrentTypical Forward Voltage
vs. Forward CurrentTypical Forward Voltage
vs. Forward Current

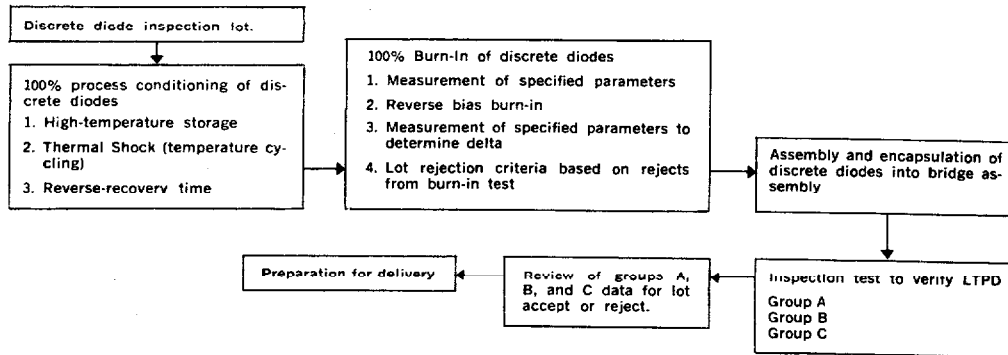
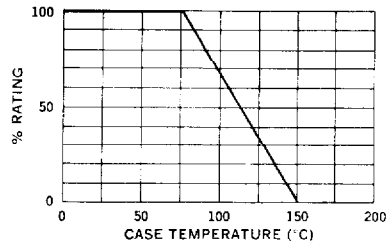
Typical Leakage Current vs. PIV



Typical Leakage Current vs. PIV



Current Derating Curve



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