January 9, 1998

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HIGH DENSITY, HIGH VOLTAGE, STANDARD RECOVERY DOUBLER AND CENTER TAPS

- Low reverse leakage currents
- Corona free design
- Easy aluminum base mount
- Low forward voltage drop
- Up to 10kV reverse voltage

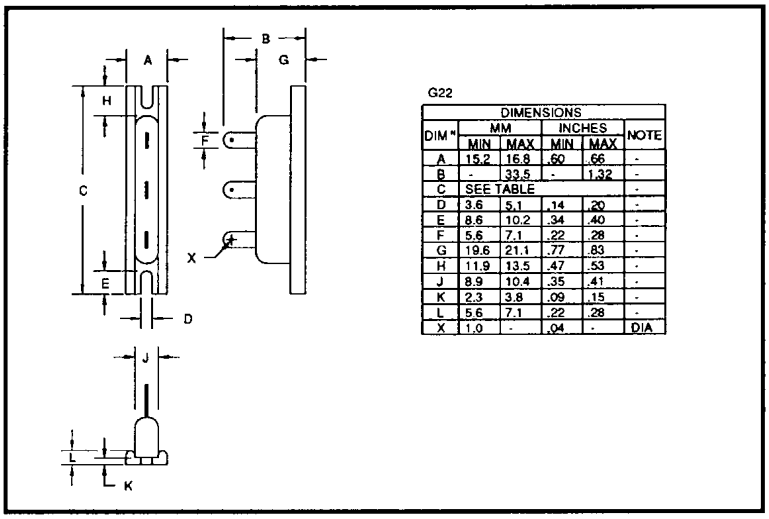
QUICK REFERENCE DATA

- V_R = 5kV & 10kV
- I_F = 5.0A
- t_{rr} = 2.0µS
- I_R = 1.0µA

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current		1 Cycle Surge Current t_p = 8.3mS @ 25°C	Operating and storage temp. ranges. T_{OP} & T_{STG}	Case Length
		air 25 °C	oil 55 °C			dim C
	Volts	Amps	Amps	Amps	°C	inches
SDHD5KS	5000	2.5	2.5	150	-55 to +150	4.72
SDHD10KS	10000	2.5	2.5	150		6.09
SDHN5KS	5000	5.0	5.0	150	-55 to +150	4.72
SDHN10KS	10000	5.0	5.0	150		6.09
SDHP5KS	5000	5.0	5.0	150	-55 to +150	4.72
SDHP10KS	10000	5.0	5.0	150		6.09

MECHANICAL



G22

DIM	DIMENSIONS MM MIN	MM MAX	INCHES MIN	INCHES MAX	NOTE
A	15.2	16.8	.60	.66	-
B	-	33.5	-	1.32	-
C	SEE TABLE				-
D	3.6	5.1	.14	.20	-
E	8.6	10.2	.34	.40	-
F	5.6	7.1	.22	.28	-
G	19.6	21.1	.77	.83	-
H	11.9	13.5	.47	.53	-
J	8.9	10.4	.35	.41	-
K	2.3	3.8	.09	.15	-
L	5.6	7.1	.22	.28	-
X	1.0	-	.04	-	DIA

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CHARACTERISTICS (ratings apply per leg)

Device Type	Reverse Current @ V_{RWM}		Maximum Forward Voltage V_F @ 3.0A @ 25°C	Maximum Reverse Recovery Time [1] @ 25°C
	@ 25 °C	@ 100 °C		
	µA	µA	Volts	µS
SDHD5KS	1.0	25	6.0	↑
SDHD10KS	1.0	25	12.0	
SDHN5KS	1.0	25	6.0	2.0
SDHN10KS	1.0	25	12.0	
SDHP5KS	1.0	25	6.0	↓
SDHP10KS	1.0	25	12.0	

[1] Measured on discrete devices prior to assembly

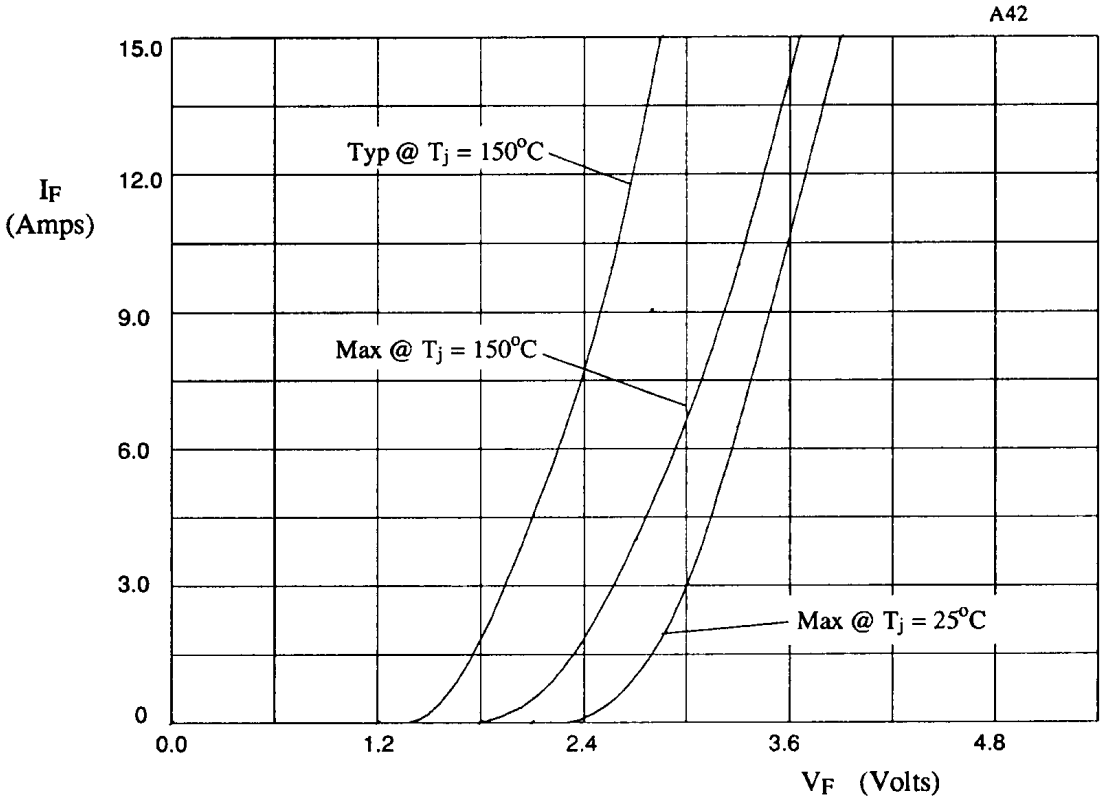


Figure 1. Forward voltage drop per leg as a function of forward current for SDH*5KS.
For SDH*10KS multiply X-axis by 2.

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