

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 15kV reverse voltage

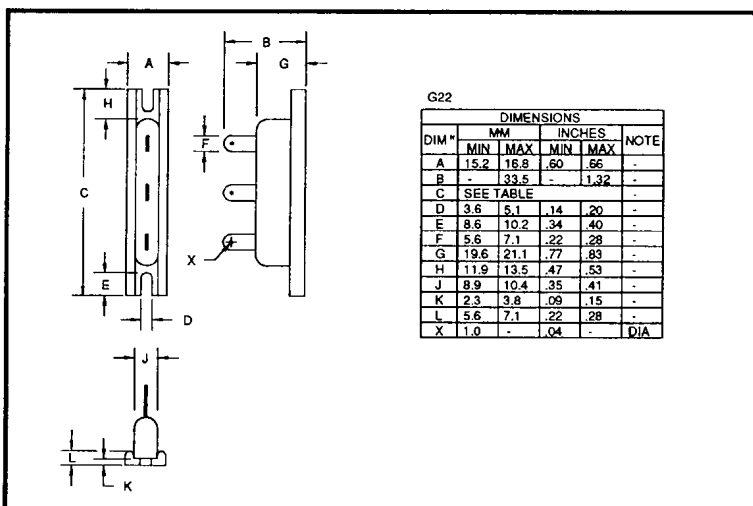
QUICK REFERENCE DATA

- $V_R = 5kV - 15kV$
- $I_F = 2.0A$
- $t_{rr} = 2.0\mu S$
- $I_R = 1.0\mu A$

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
SDHD5KM	5000					4.72
SDHD10KM	10000	1.0	1.0	50	-55 to +150	4.72
SDHD15KM	15000					6.09
SDHN5KM	5000					4.72
SDHN10KM	10000	2.0	2.0	50	-55 to +150	4.72
SDHN15KM	15000					6.09
SDHP5KM	5000					4.72
SDHP10KM	10000	2.0	2.0	50	-55 to +150	4.72
SDHP15KM	15000					6.09

MECHANICAL



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CHARACTERISTICS (ratings apply per leg)

Device Type	Reverse Current @ V_{RWM}		Maximum Forward Voltage V_F @ 1.0A @ 25°C	Maximum Reverse Recovery Time ¹ @ 25°C
	@ 25°C	@ 100°C		
	μA	μA	Volts	μS
SDHD5KM SDHD10KM SDHD15KM	1.0	25	6.6 13.2 19.8	↑ 2.0 ↓
SDHN5KM SDHN10KM SDHN15KM	1.0	25	6.6 13.2 19.8	
SDHP5KM SDHP10KM SDHP15KM	1.0	25	6.6 13.2 19.8	

¹ Measured on discrete devices prior to assembly

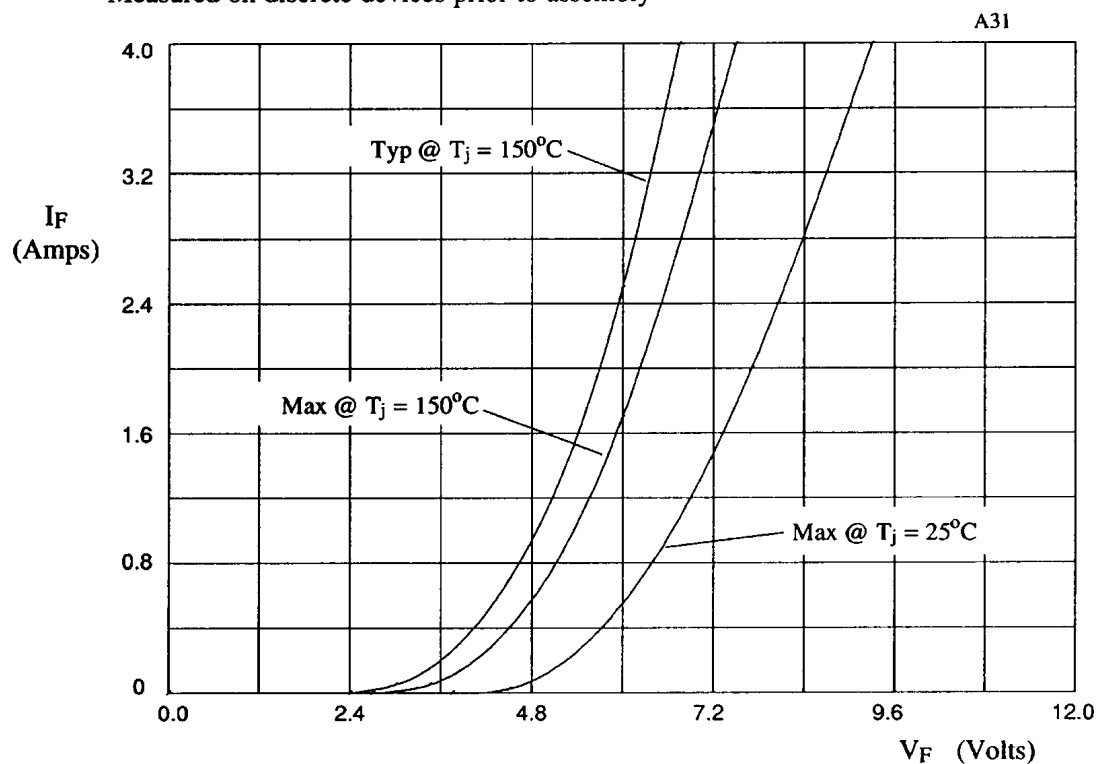


Fig 1. Forward voltage drop per leg as a function of forward current for SDH*5KM.

For SDH*10KM multiply X-axis by 2.

For SDH*15KM multiply X-axis by 3.