

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

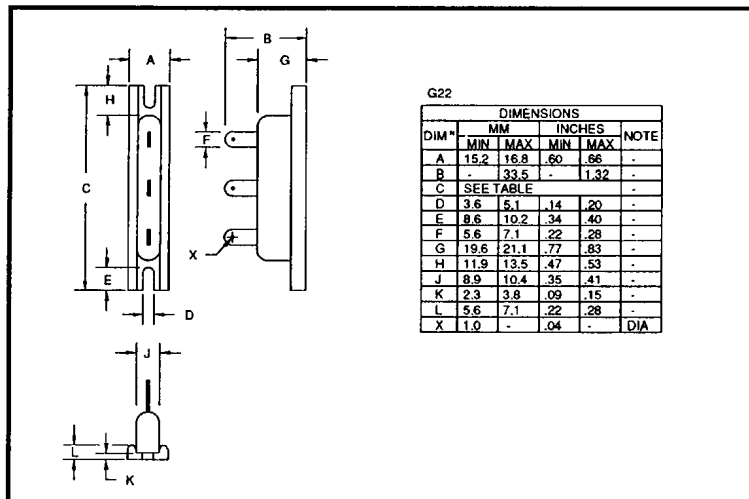
QUICK REFERENCE DATA

- $V_R = 7.5kV \text{ \& } 15kV$
- $I_F = 800mA$
- $t_{rr} = 2.0\mu S$
- $I_R = 1.0\mu A$

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. $T_{OP} \text{ \& } T_{STG}$	Case Length
		air 25°C	oil 55°C			dim C
		Volts	Amps			Amps
SDHD7.5K	7500	0.4	0.4	16	-55 to + 150	4.72
SDHD15K	15000	0.4	0.4	16		6.09
SDHN7.5K	7500	0.8	0.8	8	-55 to + 150	4.72
SDHN15K	15000	0.8	0.8	8		6.09
SDHP7.5K	7500	0.8	0.8	8	-55 to + 150	4.72
SDHP15K	15000	0.8	0.8	8		6.09

MECHANICAL



January 9, 1998

CHARACTERISTICS (ratings apply per leg)

Device Type	Reverse Current @ V_{RWM}		Maximum Forward Voltage $V_F @ 0.2A @ 25^\circ C$	Maximum Reverse Recovery Time ¹ @ 25°C
	@ 25 °C	@ 100 °C		
	µA	µA	Volts	µS
SDHD7.5K	1.0	20	10.0	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; width: 10px; height: 100px; margin-right: 5px;"></div> <div style="text-align: center; margin-right: 5px;">↑</div> <div style="text-align: center; margin-right: 5px;">2.0</div> <div style="text-align: center; margin-right: 5px;">↓</div> <div style="border-left: 1px solid black; border-right: 1px solid black; width: 10px; height: 100px; margin-left: 5px;"></div> </div>
SDHD15K	1.0	20	20.0	
SDHN7.5K	1.0	20	10.0	
SDHN15K	1.0	20	20.0	
SDHP7.5K	1.0	20	10.0	
SDHP15K	1.0	20	20.0	

¹ Measured on discrete devices prior to assembly

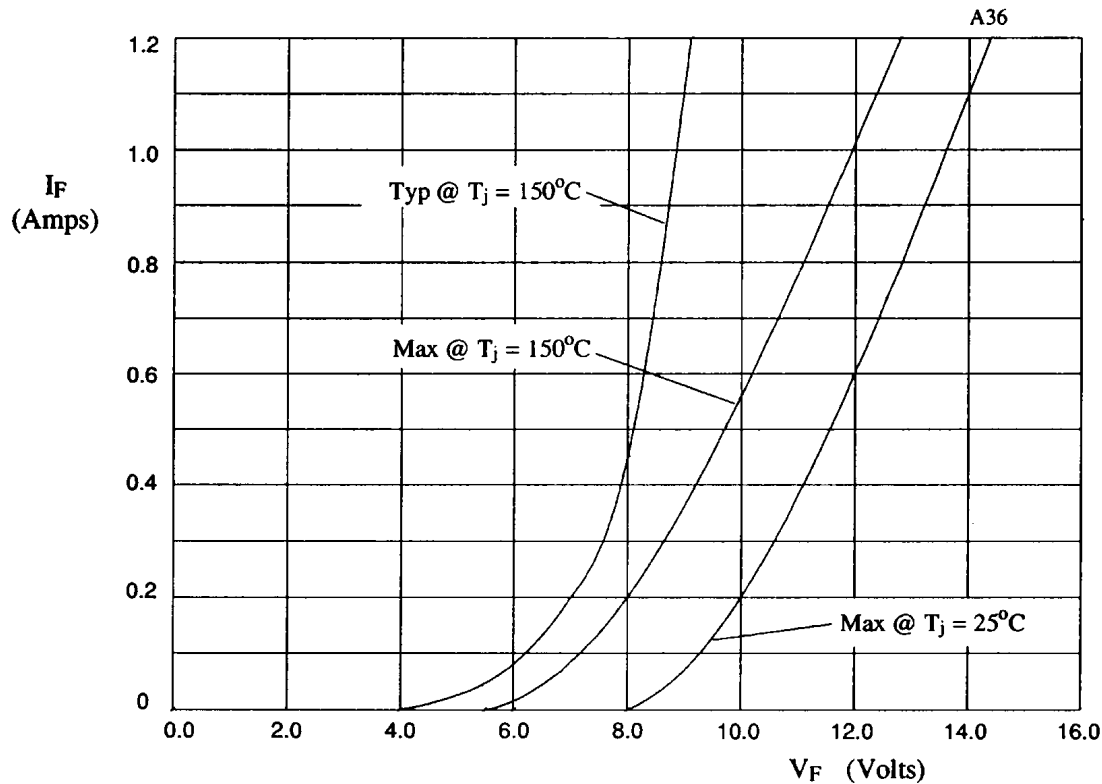


Figure 1. Maximum and typical forward voltage drop per leg as a function of forward current ($T_j = 25^\circ C$ & $150^\circ C$) for SDH*7.5K. For SDH*15K multiply X-axis by 2.