

**HIGH VOLTAGE, HIGH DENSITY, STANDARD
RECOVERY MODULAR RECTIFIER ASSEMBLY**

**QUICK REFERENCE
DATA**

- Up to 15kV reverse voltage
- Modular construction
- Low reverse leakage current
- High thermal shock resistance
- Provides design versatility

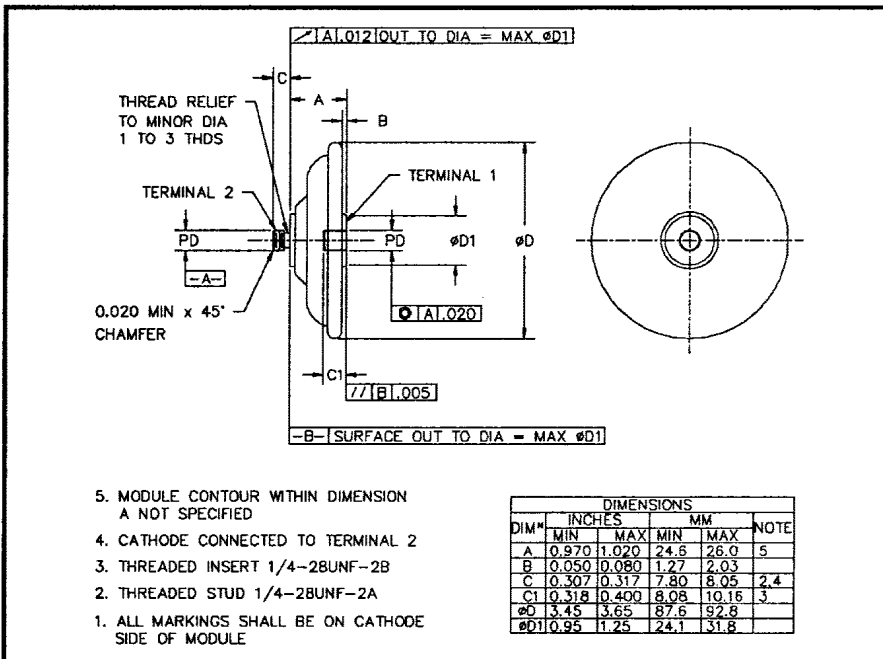
- $V_R = 7.5\text{kV} - 10\text{kV}$
- $I_F = \text{to } 3.75\text{A}$
- $I_R = 1.0\mu\text{A}$
- $I_{FSM} = 50\text{A}$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Rectified Current $I_F(AV)$			1 Cycle Surge Current I_{FSM} $t_p = 8.3\text{mS}$ @ T_{jMAX}	I^2t $t_p = 8.3\text{mS}$ @ 25°C
		Air @ 25°C	Air @ 100°C	Still oil @ 55°C		
	Volts	Amps	Amps	Amps	Amps	A^2S
SHVS7.5	7500	2.4	1.3	3.75	100	37
SHVS10	10000	2.2	1.2	3.4	100	37

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MECHANICAL



ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current $I_R @ V_{RWM}$		Maximum Forward Voltage $V_F @ 3.0A @ 25^\circ C$	Maximum Reverse Recovery Time ¹ $t_{rr} @ 25^\circ C$
	@ 25 °C	@ 100 °C		
	µA	µA	Volts	µS
SHVS7.5	1.0	10	9.2	5.0
SHVS10	1.0	10	11.5	5.0

1. Measured on discrete devices prior to assembly

Operating temperature range -55 °C to +150 °C
Storage temperature range -55 °C to +150 °C

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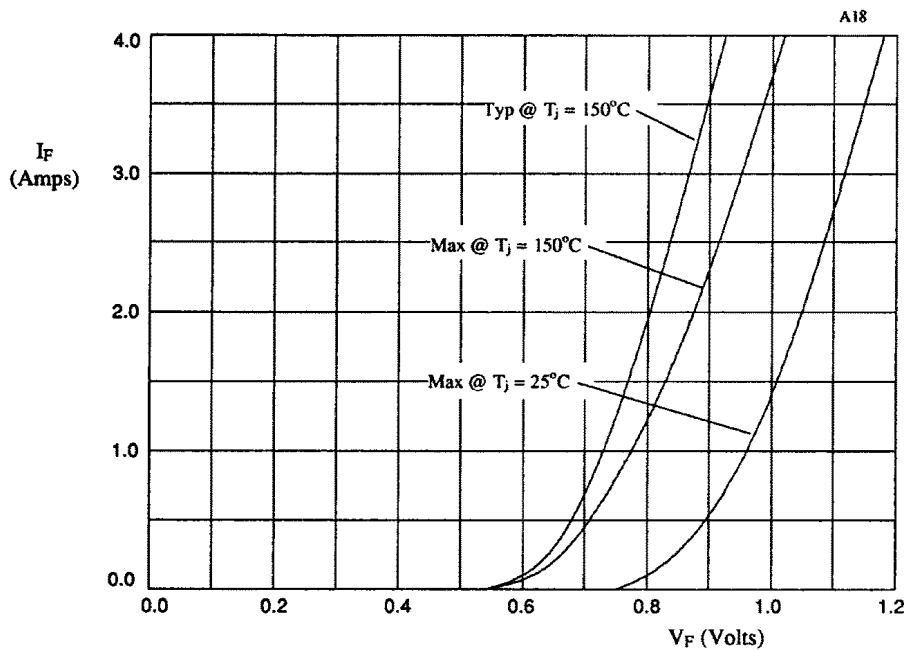


Figure 1. Forward voltage drop as a function of forward current for use with table 1.

TABLE 1

DEVICE	X-axis
SHVS7.5	x8
SHVS10	x10