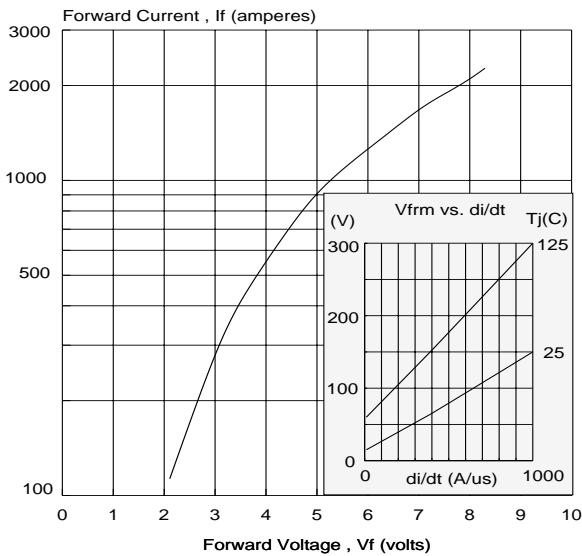


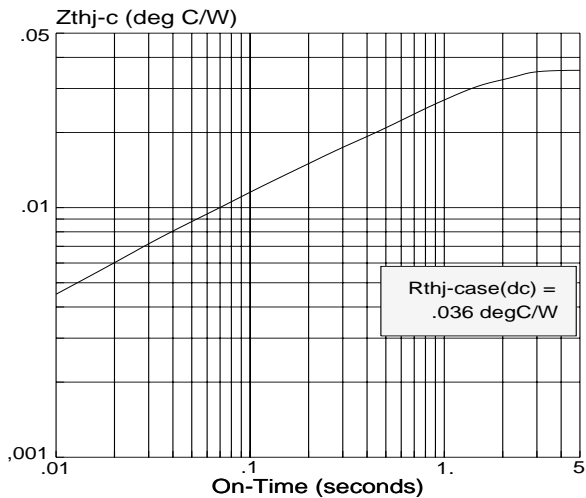
The SDD67HK fast recovery diode is designed as a parallel mate for GTO's used in voltage fed inverter circuits normally requiring the bypass function. Its relatively low recovery current and charge in combination with low thermal resistance offer a new advantage for optimizing other circuit components. It is manufactured by the proven multi-diffusion process with 40mm diameter silicon and is supplied in a disc-type package ready to mount using commercially available heat dissipators and clamping hardware.

FORWARD CHARACTERISTIC  
Process Maximum @ T<sub>J</sub>=125 C



91C-3/17/91

THERMAL IMPEDANCE vs. ON-TIME

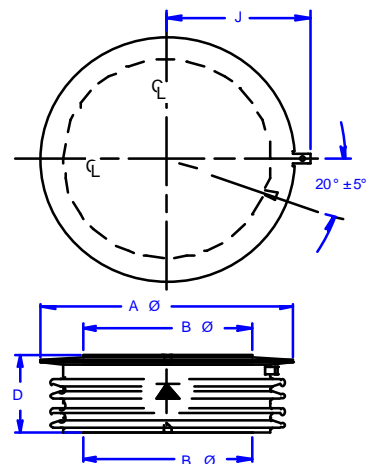


### MAXIMUM RATINGS & PARAMETERS

Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	T <sub>J</sub> = -40 to +125°C	to 4500	V
Maximum forward average & RMS current ratings	I <sub>F(AV)</sub> I <sub>RMS</sub>	T <sub>case</sub> 70°C	300 470	A
Maximum reverse leakage current	I <sub>RRM</sub>		75	ma
Forward voltage drop	V <sub>FM</sub>	I <sub>T</sub> = 1000A t <sub>p</sub> = 8.3ms T <sub>J</sub> = 125°C	5.30	V
Maximum peak recovery current*	I <sub>RR</sub>	@ 50 A/us @ 100 A/us	120 200	A
Maximum recovery charge *	Q <sub>RR</sub>	@ 50 A/us @ 100A/us	290 400	uC
Typical recovery time and snap factor	t <sub>RR</sub>		4 0.5	us

\*( tested with 3F GTO snubber)

### MECHANICAL OUTLINE



AF = 2.30 in (58.0 mm)  
BF = 1.35 in (34.3 mm)  
D = 1.04 in (26.4 mm)

CLAMPING FORCE REQUIRED  
2500 - 4200 lb / 11.1 - 18.7 kN