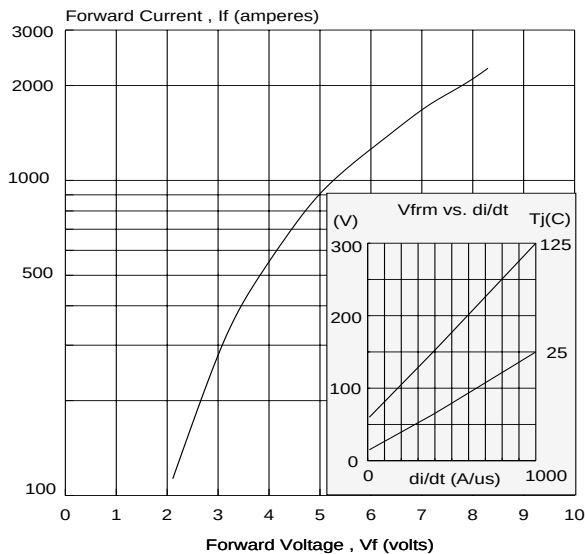
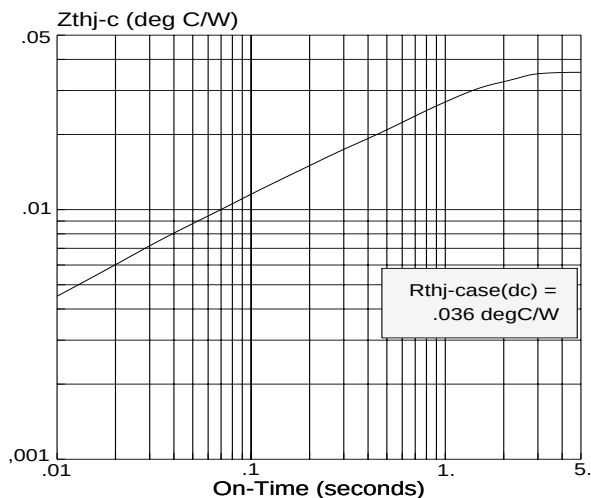


The SDD67HK fast recovery diode is designed as a parallel mate for GTO's used in voltage fed inverter circuits normally requiring the bypass function. Its relatively low recovery current and charge in combination with low thermal resistance offer a new advantage for optimizing other circuit components. 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 @ $T_J=125^\circ\text{C}$



THERMAL IMPEDANCE vs. ON-TIME

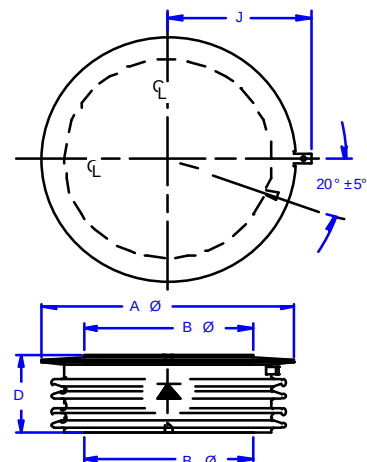


MAXIMUM RATINGS & PARAMETERS

Maximum repetitive peak reverse voltage	V_{RRM}	$T_J = -40$ to $+125^{\circ}\text{C}$	4500	V
Maximum forward average & RMS current ratings	$I_{F(AV)}$ I_{RMS}	$T_{case} 70^{\circ}\text{C}$	300 470	A
Maximum reverse leakage current	I_{RRM}		75	ma
Forward voltage drop	V_{FH}	$I_T=1000\text{A}$ $t_c=8.3\text{ms}$ $T_J=125^{\circ}\text{C}$	5.30	V
Maximum peak recovery current*	I_{RR}	@ 50 A/us	120	A
Maximum recovery charge *	Q_{RR}	@ 100 A/us	200	uC
		@ 50 A/us	290	
		@ 100A/us	400	
Typical recovery time and snap factor	t_{RR}		4 0.5	us

*(tested with 3.F GTO snubber)

MECHANICAL OUTLINE



AF = 2.39 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