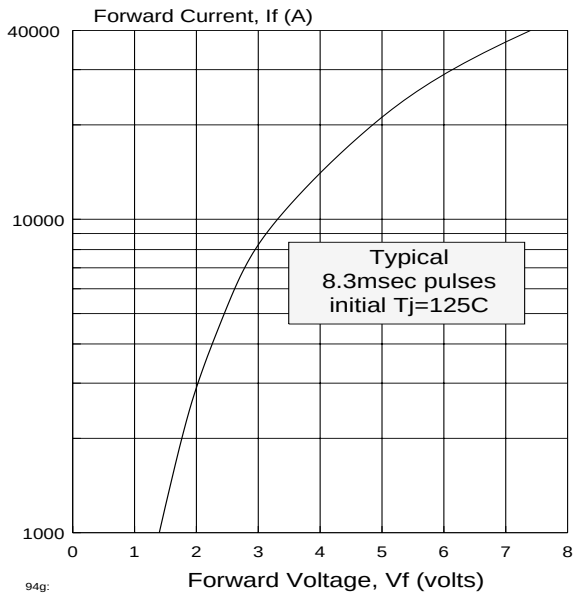
Southern States

Powers the Future

SDD216
77mm Fast Recovery DIODE
2500V / 2900Arms

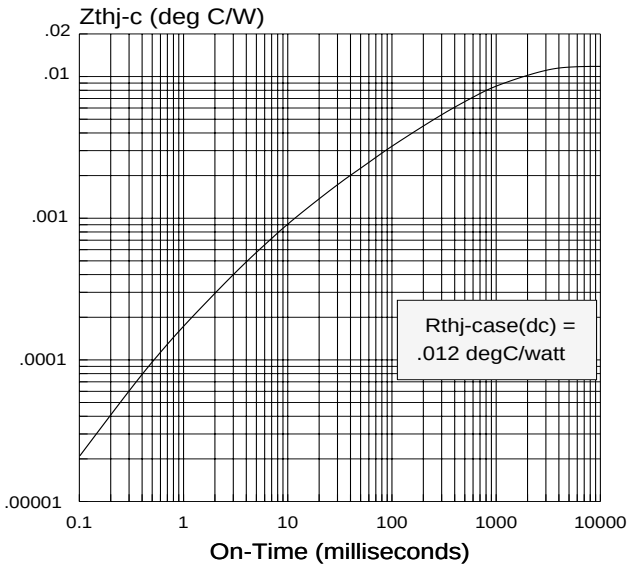
The SDD216 fast recovery diode is designed for use in voltage fed inverter circuits normally requiring the bypass function. Its relatively low recovery current and charge in combination with low thermal resistance offer a new advantage for optimizing other circuit components. It is manufactured by the proven multi-diffusion process with 77mm diameter silicon and is supplied in a disc-type package ready to mount using commercially available heat dissipators and clamping hardware.

FORWARD CONDUCTION CHARACTERISTIC



94g:

THERMAL IMPEDANCE vs. ON-TIME



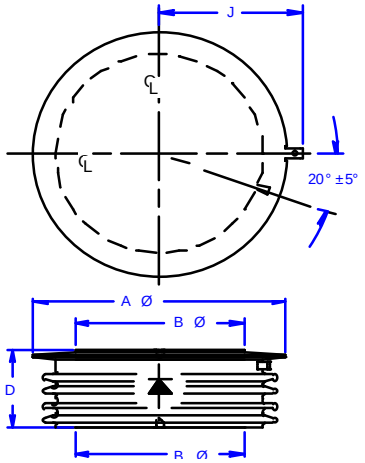
MAXIMUM RATINGS & PARAMETERS

Maximum repetitive peak reverse voltage	V_{RRM}	T_J =0 to +125°C	to 2500	V
Maximum forward average & RMS current ratings	$I_{F(AV)}$	T_{case} 70°C	1850	A
	I_{RMS}		2900	
Maximum reverse leakage current	I_{RRM}		200	ma
Forward voltage drop	V_{FM}	I_T=2000A t_p=8.3ms T_J=125°C	1.75	V
Maximum peak recovery current*	I_{RR}	@ 10 A/us	40	A
		@ 100 A/us	300	
Maximum recovery charge	Q_{RR}	@ 10 A/us	128	uC
		@100A/us	720	

SELECTION TABLE

MODEL	V_{RRM} Tj = 0 to 125°C
SDD216DK	2500 volts
SDD216TT	2000

MECHANICAL OUTLINE



A ΦΦ= 4.35 in (110.5 mm)
B ΦΦ= 2.88 in (73.2 mm)
D= 1.07 in (27.2 mm)

CLAMPING FORCE REQUIRED
7000 - 9000 lb / 31.1 - 40.0 kN