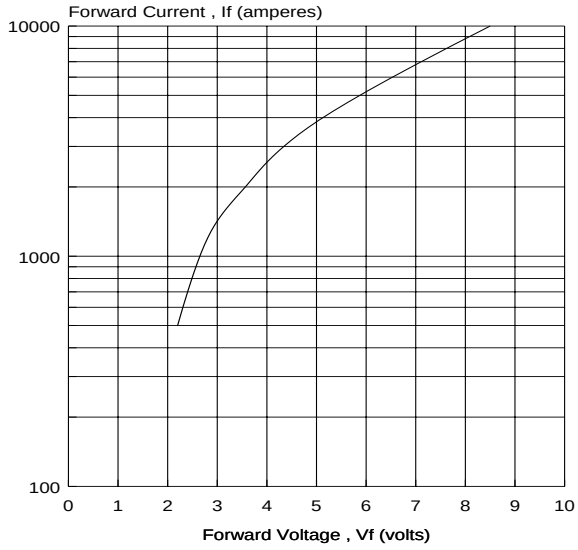
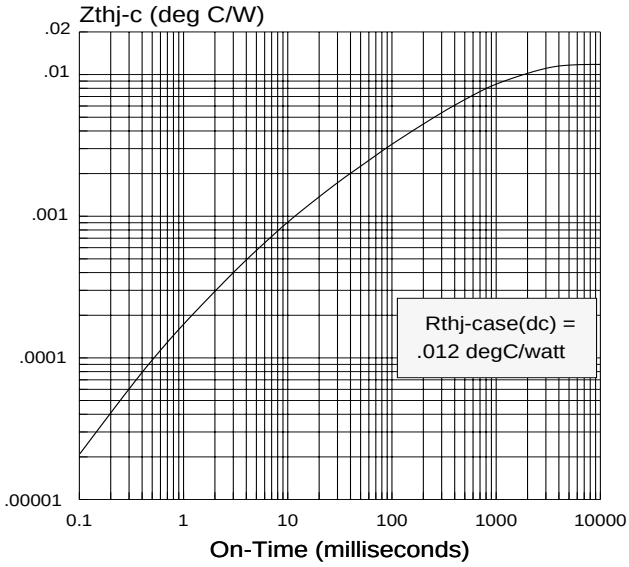
A881A
77mm Fast Recovery DIODE
4500V / 1250Arms

The A881A fast recovery diode is designed as a parallel mate for 1250 Arms 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 77mm 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 @ Tj=125 C



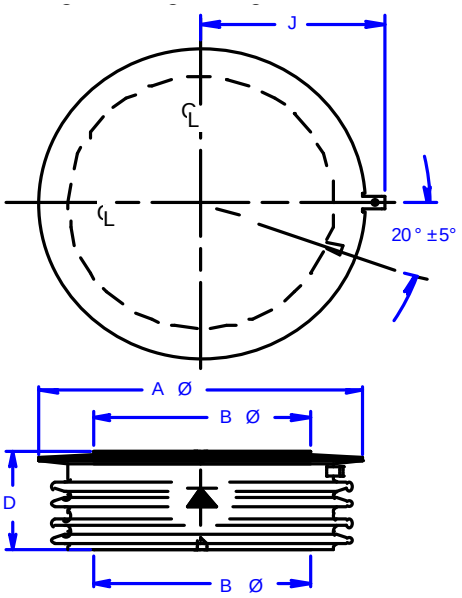
THERMAL IMPEDANCE vs. ON-TIME



MAXIMUM RATINGS & PARAMETERS

Maximum repetitive peak reverse voltage	V_{RRM}	T_J = -40 to +125°C	to 4500	V
Maximum forward average & RMS current ratings	$I_{F(AV)}$	T_{case} 70°C	800	A
	I_{RMS}		1250	
Maximum reverse leakage current	I_{RRM}		200	ma
Forward voltage drop	V_{FM}	I_T=2500A t_p=8.3ms T_J=125°C	3.75	V
Maximum peak recovery current*	I_{RR}	@ 100 A/us	350	A
		@ 400 A/us	1000	
Maximum recovery charge *	Q_{RR}	@ 100 A/us	1000	uC
		@400A/us	2000	

*(tested with 5uF GTO snubber)



Aϕ = 4.35 in (110.5 mm)
Bϕ = 2.88 in (73.2 mm)
D = 1.07 in (27.2 mm)

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

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