

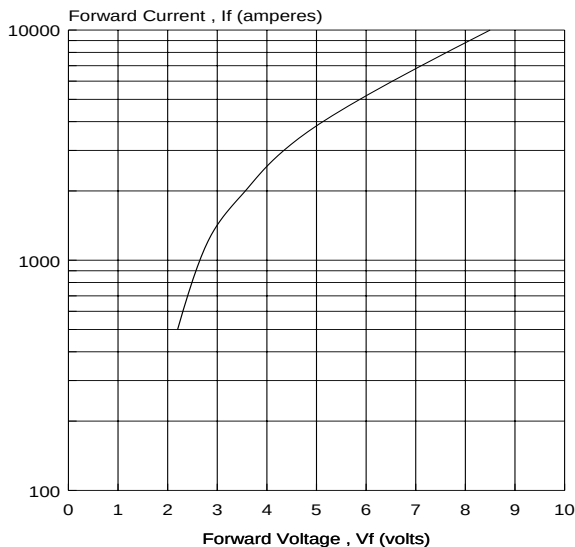
A881A

77mm Fast Recovery DIODE

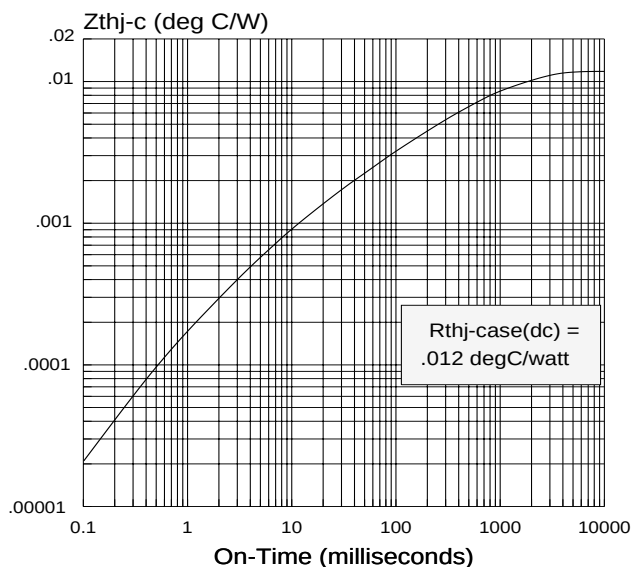
4500V / 1250Arms

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 @ $T_j=125^\circ\text{C}$



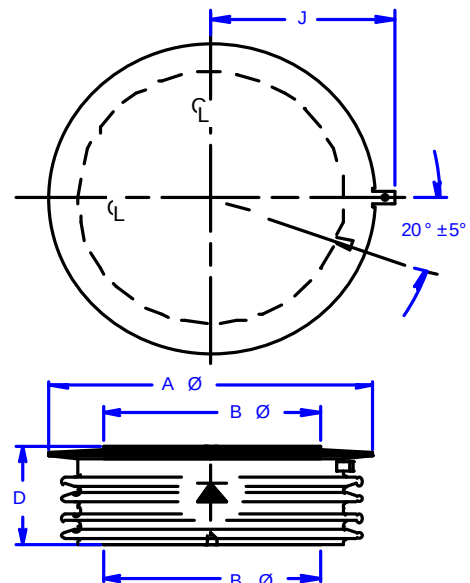
THERMAL IMPEDANCE vs. ON-TIME



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}	$T_{case} = 70^\circ\text{C}$	800 1250	A
Maximum reverse leakage current	I_{RRM}		200	ma
Forward voltage drop	V_{FH}	$I_F = 2500\text{A}$ $t_b = 8.3\text{ms}$ $T_j = 125^\circ\text{C}$	3.75	V
Maximum peak recovery current*	I_{RR}	@ 100 A/us @ 400 A/us	350 1000	A
Maximum recovery charge *	Q_{RR}	@ 100 A/us @ 400 A/us	1000 2000	uC

*(tested with 5LF GTO snubber)



$A\phi = 4.35 \text{ in (110.5 mm)}$

$B\phi = 2.88 \text{ in (73.2 mm)}$

$D = 1.07 \text{ in (27.2 mm)}$

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