



Avalanche Rectifier Diodes

ADA 900-17-P-33

Key Parameters

V_{RRM}	=	1700	V
I_{FSM}	=	14.5	kA
r_F	=	0.3	mΩ

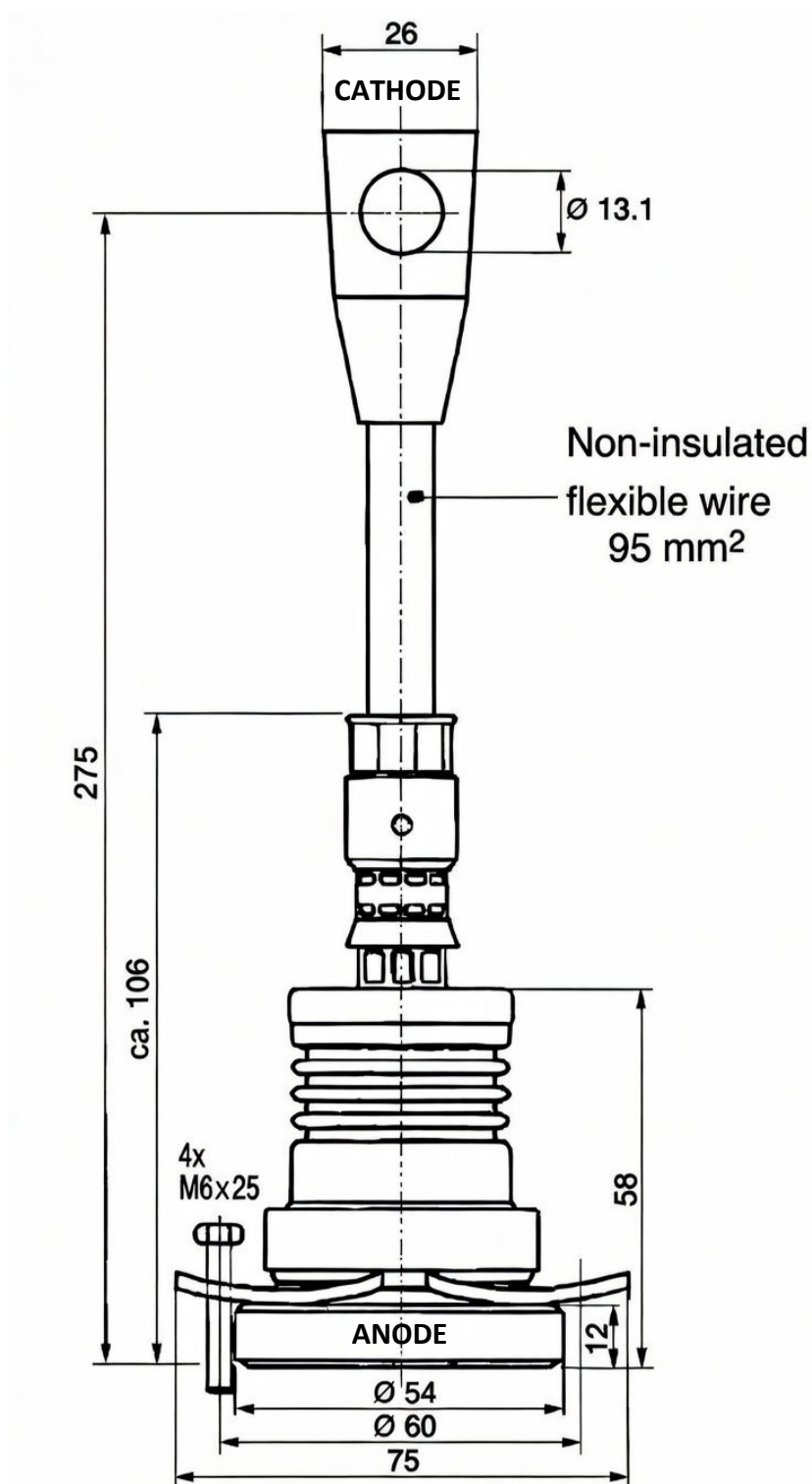
Features

- Optimized for line frequency rectifiers
- Low on-state voltage, narrow V_F -bands for parallel operation.
- Self-protected against transient over-voltages
- Guaranteed maximum avalanche power dissipation

MAXIMUM ALLOWABLE RATINGS

Symbols and parameters			Value	Unit
V_{RRM}	Repetitive peak reverse voltage		1700	V
V_{Fmin}	Minimum forward voltage		1.20	V
V_{Fmax}	Maximum forward voltage		1.35	V
I_{FAVM}	Average forward current	$T_C = 85\text{ °C}$	850	A
I_{FSM}	Surge forward current	$t_p = 8.3\text{ ms}$	14.5	kA
I_{FSM}	Surge forward current	$t_p = 10\text{ ms}$	13.5	kA
V_{F0}	Threshold forward voltage		0.83	V
r_F	Forward slope resistance		0.300	mΩ
P_{RSM}	Peak reverse surge power	$t_p = 20\text{ μs}$	50	kW
T_{vjM}	Maximum junction temperature		160	°C
R_{thJC}	Thermal resistance junction to case		60	K/kW
R_{thCH}	Thermal resistance case to heatsink		30	K/kW
M_m/F_m	Mounting torque / clamping force		3.5	Nm

DIMENSIONES



All dimensions in millimeters