ELECTRO POWER ENTERPRISE

"The Trusted Source for Induction Furnace Spare Parts"

POWER STUD DIODE

R700(701)-1600V **Forward Conduction**

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Repetitive peak reverse voltage	V_{RRM}	1600			V	
Non repetitive peak reverse voltage	V_{RSM}	1700			V	
Max. average forward current	$I_{F(AV)}$	550			A	Sinewave,180° conduction,T_c=125°C
Max. RMS forward current	$I_{F(RMS)}$	800			A	Nominal value
Max. peak, one-cycle forward, non-repetitive surge current	I_{FSM}	8.5			kA	10.0 msec (50Hz), half sinewave, T_j = T_j MAX
Maximum I^2t for fusing	I^2t	266			kA^2s	
Max. forward voltage drop	V_F		1.60		V	I_F = 1500A; T_j = 25°C
Threshold voltage	V_{T0}		0.70		V	T_j = 125°C
Slope resistance	r_t		0.32		mΩ	T_j = T_j MAX

Thermal and Mechanical Specifications

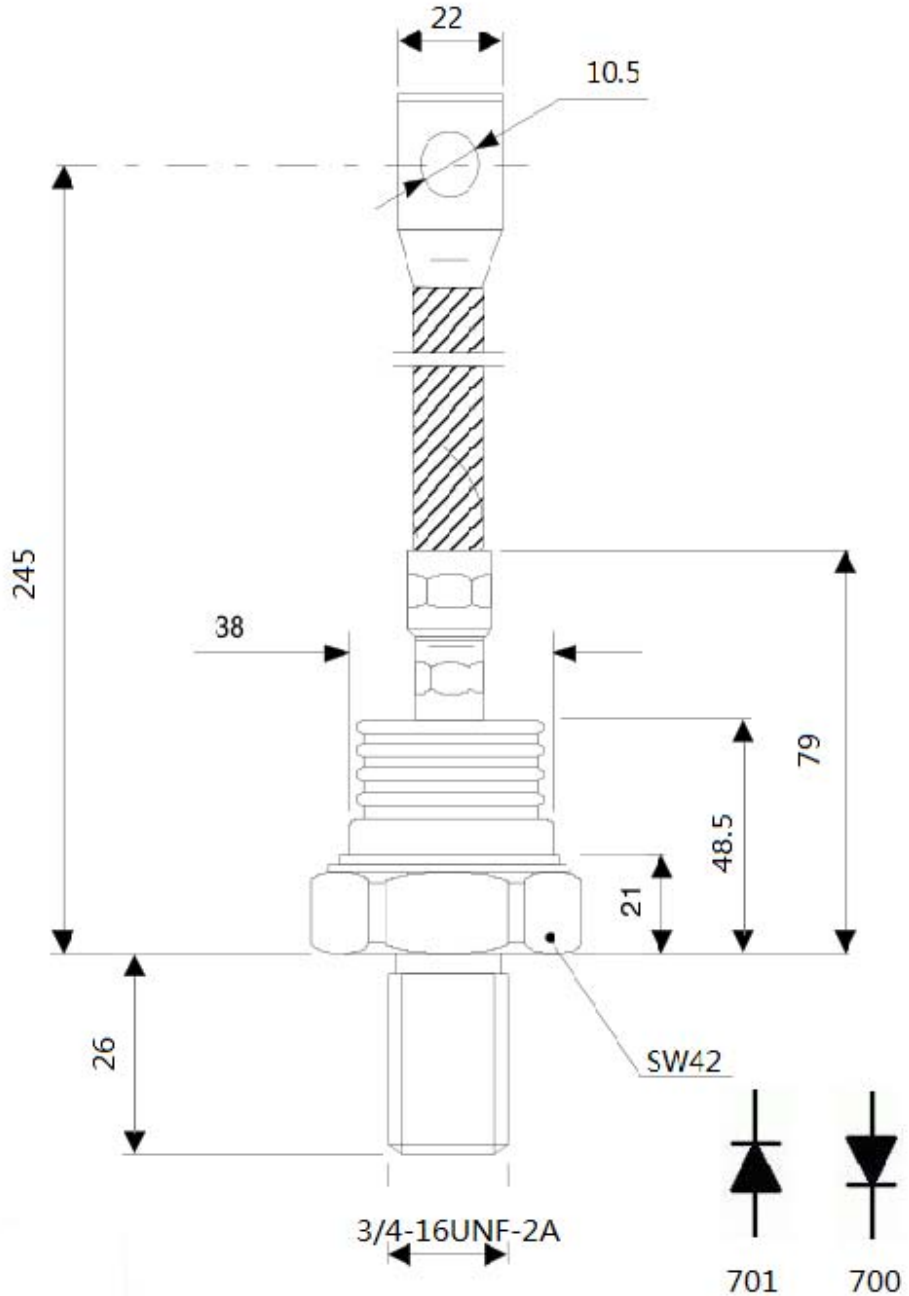
Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Repetitive peak reverse leakage and off state	I_{RRM}		40		mA	T_j = T_j MAX
Operating temperature	T_j	-65	+175		°C	
Storage temperature	T_{stg}	-65	+175		°C	
Reverse recovery charge	Q_{rr}			600	µc	
Typical Reverse Recovery Time	Trr		11		us	Ifm=1500A
Thermal resistance - junction to case	$R_{\Theta (j-c)}$		- -	-	°C/W	
Thermal resistamce - case to heatsink	$R_{\Theta (c-s)}$		- -	-	°C/W	
Mounting force	P			-	Nm	± 20%
Weight	W	-	-	-	g	About
Case style				-		See Outline Table

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CASE OUTLINE AND DIMENSIONS

R700(701)-1600V



Electro Power Enterprise
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