

Welding Diodes



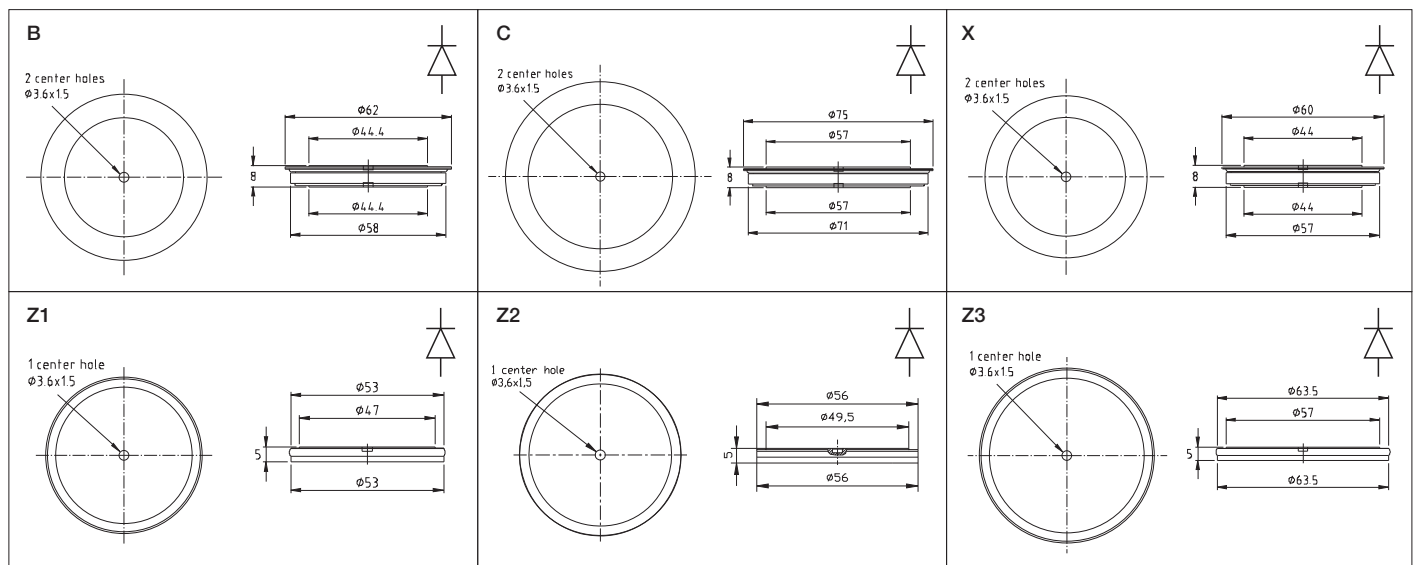
- Designed for medium and high frequency welding equipment and optimized for high current rectifiers
- Proven high reliability in welding applications with very low on-state voltage and very low thermal resistance

Part number	V_{RRM}	V_{Fmin}	V_{Fmax}	I_{FAVM}	I_{FSM}		V_{F0}	r_F	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing
		$T_j=25^\circ C, I_F=5000 A$		$T_C=85^\circ C$	8.3ms	10ms	T_{VJM}	T_{VJM}					
	V	V	V	A	kA	kA	V	m Ω	$^\circ C$	K/kW	K/kW	kN	
Standard													
5SDD 71X0200	200	-	1.05	7110	60	55	0.74	0.026	170	10.0	5.0	22	X
5SDD 71B0200	200	-	1.05	7110	60	55	0.74	0.026	170	10.0	5.0	22	B
5SDD 71X0400	400	0.97	1.02	7110	60	55	0.74	0.026	170	10.0	5.0	22	X
5SDD 71B0400	400	-	1.05	7110	60	55	0.74	0.026	170	10.0	5.0	22	B
5SDD 0120C0200	200	-	0.92*	11000	92	85	0.75	0.020	170	6.0	3.0	36	C
5SDD 0120C0400	400	0.83*	0.88*	11350	92	85	0.74	0.018	170	6.0	3.0	36	C
5SDD 92Z0400	400	-	1.03*	9250	64	60	0.78	0.031	180	5.6	3.6	22	Z1
5SDD 0105Z0400	400	-	1.01*	10502	75	70	0.812	0.026	180	5.0	2.5	30	Z2
5SDD 0135Z0400	400	-	0.92*	13500	91	85	0.758	0.021	180	3.9	2.6	35	Z3

* at 8000 A, T_{VJM}

Part number	V_{RRM}	V_{Fmax}	I_{FAVM}	I_{FSM}		V_{F0}	r_F	Q_{rr}	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing
		T_{VJM}	$T_C=85^\circ C$	8.3ms	10ms	T_{VJM}	T_{VJM}	T_{VJM}					
	V	V	A	kA	kA	V	m Ω	μC	$^\circ C$	K/kW	K/kW	kN	
High Frequency													
5SDF 63B0400	400	1.14	6266	47	44	0.96	0.036	180	190	10.0	5.0	22	B
5SDF 63X0400	400	1.14	6266	47	44	0.96	0.036	180	190	10.0	5.0	22	X
5SDF 90Z0400	400	1.13	9041	51	48	0.98	0.032	200	190	5.6	3.6	22	Z1
5SDF 0102C0400	400	1.14*	10159	75	70	0.98	0.022	300	190	6.0	3.0	35	C
5SDF 0103Z0400	400	1.20*	10266	58	54	1.00	0.027	230	190	5.0	2.5	30	Z2
5SDF 0131Z0400	400	1.14*	13058	75	70	0.98	0.022	300	190	3.9	2.6	35	Z3

* at 8000 A



Dimensions in mm

Please refer to page 27 for part numbering structure.