



GTO free-wheeling diodes

Part number	V_{RRM}	V_{DC}	I_{FAVM}			I_{FSM}		V_{F0}	r_F	I_{rr}	Q_{rr}	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing	
			$T_C = 85^\circ C$	1ms	10ms	T_{VJM}	T_{VJM}										T_{VJM}
				A	kA												
5SDF 13H4501	4500	2800	1200	60.0	25.0	1.30	0.48	800 *	3000 *	125	12	3	40	H1			
5SDF 10H6004	6000	3800	1100	44.0	18.0	1.50	0.60	1000 *	6000 *	125	12	3	40	H1			

* at $di/dt = 300A/\mu s$

Drawings see page 36f.

Please refer to page 75 for part numbering structure.

Snubber diodes

Part number	V_{RRM}	V_{DC}	I_{FAVM}	I_{FSM}		V_{FO}	r_F	I_{rr}	Q_{rr}	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing
			$T_C = 85^\circ C$	1ms	10ms	T_{VJM}	di/dt=100 A/ μs							
			A	kA	kA		A	μC						
V	V	A	kA	kA	V	m Ω	A	μC	$^\circ C$	K/kW	K/kW	kN		
5SDF 05D2501	2500	1100	490	27.0	8.5	1.40	0.50	250	900	125	40	8	11	D
5SDF 03D4501	4500	2400	320	12.0	5.0	2.00	1.50	200	1000	125	40	8	11	D
5SDF 07H4501	4500	2400	900	40.0	16.0	1.80	0.90	260	1700	125	12	3	40	H1
5SDF 02D6002	6000	3000	250	11.4	3.6	2.50	2.50	260	2000	125	40	8	11	D

IGBT diodes

Part number	V_{RRM}	V_{DC}	I_{FAVM}	I_{FSM}		V_{FO}	r_F	I_{rr}	Q_{rr}	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing
			$T_C = 70^\circ C$	10ms	10ms	T_{VJM}	di/dt=5000 A/ μs							
			A	kA	kA		A	μC						
V	V	A	kA	kA	V	m Ω	A	μC	$^\circ C$	K/kW	K/kW	kN		
5SDF 20L4521	4500	2800	1950	45.0	1.70	0.80	3600	5300	140	6	3	40	L3	
5SDF 28L4521	4500	2800	2620	56.0	1.10	0.47	3700	10100	140	6	3	40	L3	

IGCT diodes

Part number	V_{RRM}	V_{DC}	I_{FAVM}	I_{FSM}		V_{FO}	r_F	I_{rr}	di/dt	T_{VJM}	R_{thJC}	R_{thCH}	F_m	Housing
			$T_C = 70^\circ C$	1ms	10ms	T_{VJM}	max.							
			A	kA	kA		V	m Ω	A					
V	V	A	kA	kA	V	m Ω	A	A/ μs	$^\circ C$	K/kW	K/kW	kN		
5SDF 03D4502	4500	2800	275	10.0	5.0	2.15	2.80	355	300	115	40	8	16	D
5SDF 05F4502	4500	2800	435	32.0	16.0	2.42	2.10	610	430	115	17	5	20	F
5SDF 10H4503	4500	2800	1100	47.0	20.0	1.75	0.88	1520	600	125	12	3	40	H1
5SDF 20L4520	4500	2800	1950	-	45.0	1.70	0.80	2400	1200	140	6	3	40	L3
5SDF 28L4520	4500	2800	2620	-	56.0	1.10	0.47	2800	1000	140	6	3	40	L3
5SDF 02D6004	5500	3300	175	8.0	3.0	3.35	7.20	300	220	115	40	8	16	D
5SDF 04F6004	5500	3300	380	22.0	10.0	2.70	2.80	600	340	115	22	5	20	F
5SDF 08H6005	5500	3300	585	40.0	18.0	4.50	1.30	900	440	115	12	3	40	H1

Drawings see page 36f.

Please refer to page 75 for part numbering structure.