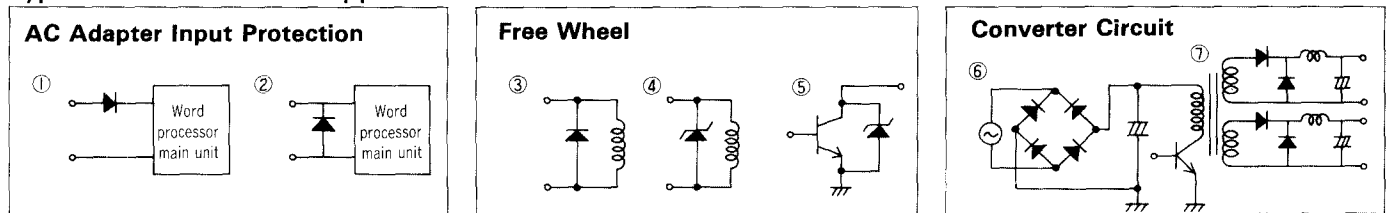


Rectifier Devices and Power Transistors

Rectifier Devices

Typical Rectifier Device Application



Lineup

High-Speed Secondary Rectifier Devices and Input Protection Devices (SBD)

I _o	V _{RRM}	Non-isolation type		Isolation type		Application
		30V	40V	30V	40V	
Single	1A	1FWJ42	1GWJ42			①
		1FWJ43	1GWJ43			①
		U1FWJ49	U1GWJ49			①
			U1GWJ44			①
	2A	2FWJ42	2GWJ42			①
C/T	3A	3FWJ42	3GWJ42			①
	5A	5FWJ2C42	5GWJ2C42	5FWJ2CZ42	5GWJ2CZ42	⑦
	10A	10FWJ2C42	10GWJ2C42	10FWJ2CZ42	10GWJ2CZ42	⑦

High-Speed Secondary Rectifier Devices (High-Efficiency Diode: HED)

I _o	V _{RRM}	Non-isolation type			Isolation type		Application
		100V	150V	200V	150V	200V	
Single	1A	1BL41/42	1CL41/42	1DL41/42			⑦
			U1CL49	U1DL49			② ⑦
	1.5A	1R5BL41	1R5CL41	1R5DL41			⑦
	3A	3BL41	3CL41	3DL41			⑦
C/T	5A		5CL2C41A	5DL2C41A	5CL2CZ41A	5DL2CZ41A	⑦
	10A		10CL2C41A	10DL2C41A	10CL2CZ41A	10DL2CZ41A	⑦

DC-DC Converters (Bipolar Transistors)

Type No.	I _c (A)	V _{CE0} (V)	P _c (W) (T _c =25°C)	V _{CE(sat)} (V) MAX	Package
2SC3225	2	40	0.9*	0.5	TO-92MOD
2SC2655		50			
2SC3328		80			
2SC3076	2	50	10	0.5	Power mold
2SC3474		80	20		
2SC3074	5	50		0.4	
2SC3303		80			
2SC2562	5	50	25	0.4	TO-220AB
2SC3258		80	30		
2SD553	7	50	40	0.5	
2SD843		80			
2SC3345	12	50		0.4	
2SC3346		80			
2SC3475	4	60	20	0.6	TO-220 (IS)
2SC3299	5	50		0.4	
2SD1412	7	80	30	0.5	
2SD1411		80			
2SC3709	12	50		0.4	
2SC3710		80			

* : T_a = 25 °C

Surge Absorber (Zener Diode)

P _w	Type No.	Application
1W	1AZ6.8 ~ 1AZ51	④ ⑤
	1Z6.8 ~ 1Z390	
	1ZB6.8 ~ 1ZB51	
1.5W	2Z12 ~ 2Z51	④ ⑤
3W	3Z12 ~ 3Z51	④ ⑤

AC-DC Converter and Surge Absorber (General-Purpose Rectifier Device)

I _o	V _{RRM}	100V	200V	400V	Application
Single	1A	S5566B		S5566G	② ③ ⑥
		S5688B		S5688G	② ③ ⑥
		U1BC44		U1GC44	② ③ ⑥
	1.5A	1R5BZ41	1R5DZ41	1R5GZ41	② ③ ⑥
Bridge	3A	3BZ41	3DZ41	3GZ41	② ③ ⑥
	0.5A	OR5B4B48	OR5D4B48	OR5G4B48	⑥
	1A	1B4B41	1D4B41	1G4B41	⑥
		1B4B42	1D4B42	1G4B42	⑥

DC-DC Converters (Power MOS FET)

Type No.	I _D (A)	V _{DSS} (V)	P _D (W)	R _{DS} (ON) (Ω) Typ.	Package
2SK672	10	60	40	0.15	TO-220AB
2SK673	15		75	0.085	
2SK888		100	0.14		
2SK674	25	60	100	0.04	TO-220 (IS)
2SK1346		40			
2SK889	27	100	125	0.07	TO-220AB
2SK850	35		150	0.045	TO-3P (N)
2SK849	40	0.029			
2SK856	45	60	125	0.022	TO-220AB
2SK1124					TO-3P (N)

DC-DC Converters (L²-π-MOS III Series)

Type No.	I _o	V _{DSS} (V)	P _D (W)	R _{DS(ON)} (Ω) Typ. @ 10V @ 4V		Package
2SK1079	0.6	100	0.5	0.95	1.2	Power mini
2SK941			0.9			TO-92MOD
2SK1078	0.8	60	0.5	0.4	0.75	Power mini
2SK940			0.9			TO-92MOD
2SK1113	3	120	20	0.33	0.4	Power mold
2SK1112	5	60		0.12	0.2	
2SK1114	12	60	40	0.055	0.088	TO-220AB
2SK1344			30			TO-220 (IS)
2SK1115	20	100	60	0.042	0.064	TO-220AB
2SK1345			40			TO-220 (IS)
2SK942	25	60	75	0.036	0.07	TO-220AB
2SK943			40			TO-220 (IS)
2SK1116		100	100	0.045	0.07	TO-220AB
2SK1349			45			TO-220 (IS)