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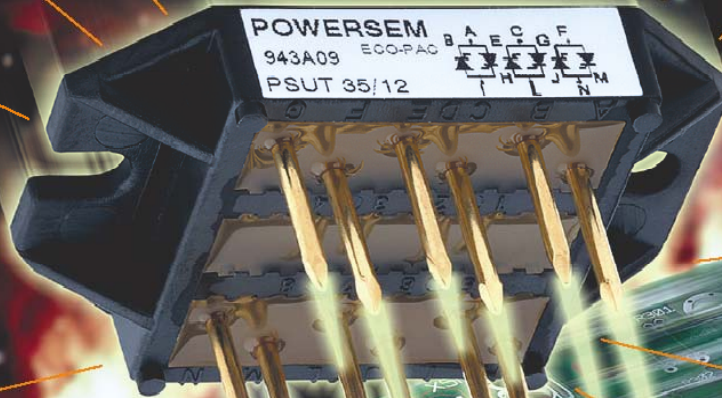
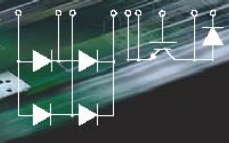
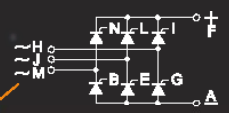
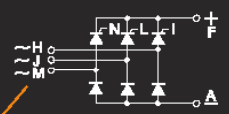
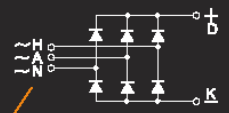
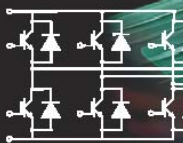
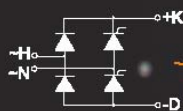
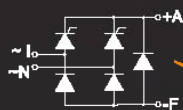
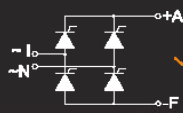
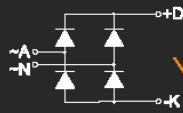
ECO-PACs™

Multiple Chip Technology (MCT)

ECO-PACs from Powersem offer a wide choice circuit configuration and integration of diode, thyristor, FRED, MOSFET and IGBT chips within a single package, thereby reducing the number of external connections.

They provide isolation voltage of over 3000 V_{AC RMS}, allow optimum heat transfer directly to the heatsink and are suitable for soldering on to printed circuit boards.

The usage of DCB technology and planar passivated silicon diffused chips leads to excellent long term reliability and thermal/load cycling capability. The ECO-PAC's are offered in 600 to 1800 V, 20 to 80 A and can easily replace up to six discrete devices and three power modules. The very flat package enables compact design and economic system solutions.



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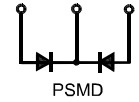
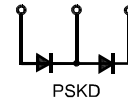
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Ultrafast Epitaxial Diode Modules



released, E 148688



Type	V _{RRM}	V _{VRMS}	I _{FAV}	T _C	I _{FSM} 45°C 10ms	V _F T _{VJ} 25°C	I _F	t _{rr} T _{VJ} 25°C	R _{thJC} per Diode/ per Modul K/W	R _{thJH} per Diode/ per Modul K/W	Figure	Package style see outlines starting at page 86
	V	V	A	°C	A	V	A	ns				
PSKD 30E/02	200	60	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6
PSKD 30E/04	400	125	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6
PSKD 30E/06	600	200	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6
PSKD 30E/08	800	250	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6
PSKD 30E/10	1000	312	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6
PSKD 30E/12	1200	400	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6
PSKD 50E/02	200	60	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55
PSKD 50E/04	400	125	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55
PSKD 50E/06	600	200	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55
PSKD 50E/08	800	250	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55
PSKD 50E/10	1000	312	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55
PSKD 50E/12	1200	400	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55
PSKD 75E/02	200	60	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5
PSKD 75E/04	400	125	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5
PSKD 75E/06	600	200	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5
PSKD 75E/08	800	250	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5
PSKD 75E/10	1000	312	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5
PSKD 75E/12	1200	400	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5
PSKD 100E/02	200	60	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42
PSKD 100E/04	400	125	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42
PSKD 100E/06	600	200	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42
PSKD 100E/08	800	250	104	70	1500	1.55	100	100	0.65	0.33	0.84	0.42
PSKD 100E/10	1000	312	104	70	1500	1.55	100	100	0.65	0.33	0.84	0.42
PSKD 100E/12	1200	400	104	70	1500	1.55	100	100	0.65	0.33	0.84	0.42
PSKD 150E/02	200	60	272	70	3000	1.25	150	60	0.42	0.21	0.57	0.28
PSKD 150E/04	400	125	272	70	3000	1.25	150	60	0.42	0.21	0.57	0.28
PSKD 150E/06	600	200	272	70	3000	1.25	150	60	0.42	0.21	0.57	0.28
PSKD 150E/08	800	250	208	70	2500	1.55	150	100	0.42	0.21	0.57	0.28
PSKD 150E/10	1000	312	208	70	2500	1.55	150	100	0.42	0.21	0.57	0.28
PSKD 150E/12	1200	400	208	70	2500	1.55	150	100	0.42	0.21	0.57	0.28
PSKD 200E/02	200	60	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19
PSKD 200E/04	400	125	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19
PSKD 200E/06	600	200	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19
PSKD 200E/08	800	250	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19
PSKD 200E/10	1000	312	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19
PSKD 200E/12	1200	400	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19
PSMD 30E/02	200	60	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6
PSMD 30E/04	400	125	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6
PSMD 30E/06	600	200	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6
PSMD 30E/08	800	250	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6
PSMD 30E/10	1000	312	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6
PSMD 30E/12	1200	400	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6
PSMD 50E/02	200	60	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55
PSMD 50E/04	400	125	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55
PSMD 50E/06	600	200	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55
PSMD 50E/08	800	250	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55
PSMD 50E/10	1000	312	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55
PSMD 50E/12	1200	400	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55
PSMD 75E/02	200	60	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5
PSMD 75E/04	400	125	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5
PSMD 75E/06	600	200	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5
PSMD 75E/08	800	250	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5
PSMD 75E/10	1000	312	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5
PSMD 75E/12	1200	400	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5
PSMD 100E/02	200	60	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42
PSMD 100E/04	400	125	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42
PSMD 100E/06	600	200	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42
PSMD 100E/08	800	250	104	70	1500	1.55	100	100	0.65	0.33	0.84	0.42
PSMD 100E/10	1000	312	104	70	1500	1.55	100	100	0.65	0.33	0.84	0.42
PSMD 100E/12	1200	400	104	70	1500	1.55	100	100	0.65	0.33	0.84	0.42

Fig. 1
Weight = 160 g

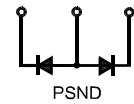
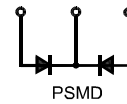



Fig. 2
Weight = 270 g



Ultrafast Epitaxial Diode Modules

 released, E 148688



Type	V_{RRM}	V_{VRMS}	I_{FAV}	T_C	I_{FSM} 45°C 10ms	V_F T_{VJ} 25°C	I_F	t_{rr} T_{VJ} 25°C	R_{thJC} per Diode/ per Modul K/W		R_{thJH} per Diode/ per Modul K/W		Figure	Package style see outlines starting at page 86
	V	V	A	°C	A	V	A	ns						
PSMD 150E/02	200	60	272	70	3000	1.25	150	60	0.42	0.21	0.57	0.28	2	 Fig. 2 Weight = 270 g
PSMD 150E/04	400	125	272	70	3000	1.25	150	60	0.42	0.21	0.57	0.28		
PSMD 150E/06	600	200	272	70	3000	1.25	150	60	0.42	0.21	0.57	0.28		
PSMD 150E/08	800	250	208	70	2500	1.55	150	100	0.42	0.21	0.57	0.28		
PSMD 150E/10	1000	312	208	70	2500	1.55	150	100	0.42	0.21	0.57	0.28		
PSMD 150E/12	1200	400	208	70	2500	1.55	150	100	0.42	0.21	0.57	0.28		
PSMD 200E/02	200	60	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19		
PSMD 200E/04	400	125	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19		
PSMD 200E/06	600	200	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19		
PSMD 200E/08	800	250	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19		
PSMD 200E/10	1000	312	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19		
PSMD 200E/12	1200	400	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19		
PSND 30E/02	200	60	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6	1	
PSND 30E/04	400	125	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6		
PSND 30E/06	600	200	25	85	400	1.25	30	60	1.0	0.5	1.2	0.6		
PSND 30E/08	800	250	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6		
PSND 30E/10	1000	312	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6		
PSND 30E/12	1200	400	25	85	300	2.00	30	100	1.0	0.5	1.2	0.6		
PSND 50E/02	200	60	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55		
PSND 50E/04	400	125	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55		
PSND 50E/06	600	200	50	85	800	1.25	50	60	0.9	0.45	1.1	0.55		
PSND 50E/08	800	250	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55		
PSND 50E/10	1000	312	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55		
PSND 50E/12	1200	400	50	85	600	2.00	50	100	0.9	0.45	1.1	0.55		
PSND 75E/02	200	60	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5	2	
PSND 75E/04	400	125	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5		
PSND 75E/06	600	200	75	85	1400	1.25	75	60	0.85	0.43	1.0	0.5		
PSND 75E/08	800	250	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5		
PSND 75E/10	1000	312	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5		
PSND 75E/12	1200	400	75	85	1000	2.00	75	100	0.85	0.43	1.0	0.5		
PSND 100E/02	200	60	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42		
PSND 100E/04	400	125	136	70	2000	1.25	100	60	0.65	0.33	0.84	0.42		
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PSND 100E/08	800	250	104	70	1500	1.55	100	100	0.65	0.33	0.84	0.42		
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PSND 200E/04	400	125	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19		
PSND 200E/06	600	200	408	70	4000	1.25	200	60	0.28	0.14	0.38	0.19		
PSND 200E/08	800	250	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19		
PSND 200E/10	1000	312	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19		
PSND 200E/12	1200	400	312	70	3200	1.55	200	100	0.28	0.14	0.38	0.19		