

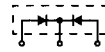
# HiPerFRED™ Diodes



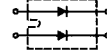
DSEE...



DSEP...



DSEC...



DSEP 2x...



DSEC

$$I_{FAV} = 8 - 2 \times 120 \text{ A}$$

Type	V <sub>RRM</sub>	I <sub>FAV</sub> @ T <sub>C</sub> d=0.5	I <sub>FSM</sub> 10 ms 45°C	V <sub>F</sub> max. T <sub>VJM</sub> = 150°C	I <sub>F</sub>	t <sub>rr</sub> typ. T <sub>VJ</sub> =25°C	I <sub>RM</sub> @-di/dt typ. T <sub>VJ</sub> = 100°C	T <sub>VJM</sub>	R <sub>thJC</sub>	P <sub>tot</sub> max.	Leg. No.	Package style		
New	V	A	°C	A	A	ns	A	°C	K/W	W		Outline drawings on page 91-100		
DSEP 8-02A	200	8	150	80	0.94	8	25	4.1	100	175	2.5	60	4	Fig. 2 TO-252 AA Weight = 0.3 g
DSEP 8-03A	300	10	130	60	1.29	10	30	2.4	100	175	2.5	60	4	Fig. 3 TO-220AB Weight = 4 g
DSEP 15-03A	300	15	135	140	1.21	15	30	2.7	100	175	1.6	95		
DSEP 29-03A	300	30	145	300	0.93	30	30	7.0	100	175	0.9	165		
DSEP 30-03A	300	30	145	300	0.91	30	30	7.0	100	175	0.9	165	8	Fig. 4 TO-220 AC Weight = 2 g
DSEP 30-04A	400	30	140	tbd	1.11	30	30	5.5	100	175	0.9	165		
DSEP 60-04A	400	60	120	600	1.12	60	30	5.0	100	175	0.65	230	4	Fig. 5a TO-263AB Weight = 2 g
DSEP 6-06AS	600	6	152	40	1.33	6	20	3.5	100	175	2.8	55		
DSEP 8-06A	600	10	135	50	1.42	10	35	3.5	100	175	2.5	60	4	Fig. 6 TO-247 AD Weight = 6 g
DSEP 15-06A	600	15	140	110	1.35	15	35	4.0	100	175	1.6	95		
DSEP 15-06B	600	15	130	110	1.55	15	25	2.5	100	175	1.6	95	5a	Fig. 7a Weight = 5 g
DSEP 29-06A	600	30	135	250	1.26	30	35	6.0	100	175	0.9	165		
DSEP 29-06AS	600	30	135	250	1.26	30	35	6.0	100	175	0.9	165	4	Fig. 86 ISOPLUS i4-PAC™ Weight = 9 g
DSEP 29-06B	600	30	125	200	1.58	30	30	4.0	100	175	0.9	165		
DSEP 30-06A	600	30	135	250	1.25	30	35	6.0	100	175	0.9	165	8	Fig. 83 ISOPLUS220™ Weight = 2 g
DSEP 30-06B	600	30	125	250	1.56	30	30	4.0	100	175	0.9	165		
DSEP 30-06BR	600	30	115	250	1.56	30	30	4.0	100	175	0.9	165	7a	Fig. 88 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEP 30-06CR	600	30	135	300	1.79	30	20	4.5	100	175	0.6	250		
DSEP 60-06A	600	60	110	600	1.39	60	35	6.5	100	175	0.65	230	8	Fig. 89 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEP 60-06AT	600	60	110	600	1.39	60	35	6.5	100	175	0.65	230		
DSEP 8-12A	1200	10	115	40	1.96	10	40	4.0	100	175	2.5	60	4	Fig. 90 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEP 12-12A	1200	15	125	90	1.79	15	40	4.5	100	175	1.6	95		
DSEP 29-12A	1200	30	115	200	1.81	30	40	5.5	100	175	0.9	165		
DSEP 30-12A	1200	30	115	200	1.78	30	40	5.5	100	175	0.9	165	8	Fig. 91 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEP 30-12AR	1200	30	105	200	1.78	30	40	5.5	100	175	1.1	135		
DSEP 60-12A	1200	60	90	500	1.74	60	40	7.0	100	175	0.65	230		
DSEP 60-12AR	1200	60	90	500	1.74	60	40	7.0	100	175	0.65	230		
DSEE 55-24N1F	2400	53	90	500	2.00	40	220	79.0	750	150	0.63	200	86	Fig. 92 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 16-02A	200	2x8	150	80	0.94	8	25	3.5	100	175	2.5	60		
DSEC 29-02A	200	2x15	150	140	0.86	15	25	3.5	100	175	1.6	95	3	Fig. 93 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 29-02AS	200	2x15	150	140	0.85	15	25	3.5	100	175	1.6	95		
DSEC 30-02A	200	2x15	150	140	0.85	15	25	3.5	100	175	1.6	95	5a	Fig. 94 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 30-03A	300	2x15	140	110	1.20	15	30	2.0	100	175	1.6	95		
DSEC 60-03A	300	2x30	145	300	0.91	30	30	4.5	100	175	0.9	165	6	Fig. 95 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 60-03AR	300	2x30	145	300	0.91	30	30	4.5	100	175	1.1	165		
DSEC 16-04AS	400	2x8	140	60	1.12	10	30	2	100	175	2.5	60	7	Fig. 96 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 30-04A	400	2x15	145	tbd	1.06	15	30	5.0	100	175	1.6	95		
DSEC 60-04AC	400	2x30	140	tbd	1.09	30	30	5.5	100	175	1.6	165	6	Fig. 97 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 16-06A	600	2x10	135	50	1.42	10	35	3.5	100	175	2.5	60		
DSEC 16-06AC	600	2x10	85	50	1.42	10	35	3.5	100	175	3.0	50	3	Fig. 98 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 29-06AC	600	2x15	140	110	1.49	15	35	4.0	100	175	1.6	95		
DSEC 30-06A	600	2x15	140	110	1.34	15	35	4.0	100	175	1.6	95	6	Fig. 99 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 30-06B	600	2x15	135	110	1.54	15	25	2.6	100	175	1.6	95		
DSEC 59-06BC	600	2x30	125	200	1.75	125	30	4.0	100	175	0.9	165	83	Fig. 100 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 60-06A	600	2x30	135	250	1.25	30	35	6.0	100	175	0.9	165		
DSEC 60-06B	600	2x30	125	250	1.56	30	30	4.0	100	175	0.9	165	6	Fig. 101 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 16-12A	1200	2x10	115	40	1.96	10	40	4.0	100	175	2.5	60		
DSEC 30-12A	1200	2x15	125	90	1.78	15	40	4.5	100	175	1.6	95	3	Fig. 102 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEC 60-12A	1200	2x30	115	200	1.78	30	40	5.5	100	175	0.9	165		
DSEP 2x31-03A	300	2x30	110	300	0.96	30	30	4.5	100	150	1.15	100	12	Fig. 103 ISOPLUS247™ DCB isolated package Weight = 5 g
DSEP 2x61-03A	300	2x60	75	600	1.26	60	30	4.0	100	150	0.85	140		
DSEP 2x91-03A	300	2x90	65	1000	1.30	90	30	4.5	100	150	0.6	200		
DSEP 2x31-04A	400	2x30	105	tbd	1.15	30	30	5.5	100	150	1.15	100	Fig. 104 ISOPLUS247™ DCB isolated package Weight = 5 g	
DSEP 2x31-06A	600	2x30	95	250	1.30	30	35	6.0	100	150	1.15	100		
DSEP 2x31-06B	600	2x30	85	250	1.73	30	30	4.0	100	150	1.15	100	Fig. 105 ISOPLUS247™ DCB isolated package Weight = 5 g	
DSEP 2x61-06A	600	2x60	65	600	1.48	60	35	6.5	100	150	0.85	140		
DSEP 2x91-06A	600	2x90	55	1000	1.52	90	35	8.0	100	150	0.6	200	Fig. 106 ISOPLUS247™ DCB isolated package Weight = 5 g	
DSEP 2x31-12A	1200	2x30	70	200	1.96	30	40	5.5	100	150	1.15	100		
DSEP 2x61-12A	1200	2x60	80	800	1.70	60	40	8.0	100	150	0.6	200	Fig. 107 ISOPLUS247™ DCB isolated package Weight = 5 g	
DSEP 2x101-04A	400	2x101	100	1000	1.24	100	30	5.5	100	150	0.6	200		
DSEC 240-04A *	400	2x120	115	2000	1.07	120	30	5.5	100	150	0.2	620	Fig. 108 ISOPLUS247™ DCB isolated package Weight = 5 g	
DSEC 240-06A *	600	2x120	105	2000	1.39	120	35	8.0	100	150	0.2	620		

\* Non isolated base plate