



Power Diodes

9 - 30A

Device type	Maximum rating				Thermal rating T _j and T _{stg} °C	Characteristics(T _a =25°C)			Package	Net mass Grams
	V _{RRM} Volts	V _{RSM} Volts	I _{F(AV)} * ¹ Amps.	I _{FSM} Amps.		V _{FM} Max.Volts	I _{RRM} Max.mA	R _{th(j-c)} °C/W		
SID01-01	100	150	9 (T _c =111°C)	200 * ²	-40 to +150	1.50(I _F =30A)	1.0	2.61 * ¹	Power M5F	5.5
SID01-03	300	450								
SID01-06	600	900								
SID01-09	900	1350								
SID01-12	1200	1800								
ERD51-01	100	150	9 (T _c =111°C)	200 * ²	-40 to +150	1.50(I _F =30A)	1.0	2.61 * ¹	Power M5R	5.5
ERD51-03	300	450								
ERD51-06	600	900								
ERD51-09	900	1350								
ERD51-12	1200	1800								
SIE01-01	100	150	16 (T _c =108°C)	350 * ²	-40 to +150	1.50(I _F =50A)	1.5	1.50 * ¹	Power M6F	12
SIE01-03	300	450								
SIE01-06	600	900								
SIE01-09	900	1350								
SIE01-12	1200	1800								
ERE51-01	100	150	16 (T _c =108°C)	350 * ²	-40 to +150	1.50(I _F =50A)	1.5	1.50 * ¹	Power M6R	12
ERE51-03	300	450								
ERE51-06	600	900								
ERE51-09	900	1350								
ERE51-12	1200	1800								
SIG01-01	100	150	30 (T _c =104°C)	800 * ²	-40 to +150	1.50(I _F =100A)	2.0	0.96 * ¹	Power M8F	25
SIG01-03	300	450								
SIG01-06	600	900								
SIG01-09	900	1350								
SIG01-12	1200	1800								
ERG51-01	100	150	30 (T _c =104°C)	800 * ²	-40 to +150	1.50(I _F =100A)	2.0	0.96 * ¹	Power M8R	25
ERG51-03	300	450								
ERG51-06	600	900								
ERG51-09	900	1350								
ERG51-12	1200	1800								

() Conditions

*¹ 50Hz sine wave, conduction angle 180°

*² 50Hz sine wave, rated load

300 - 1800A

Device type	Maximum rating				Thermal rating T _j and T _{stg} °C	Characteristics(T _a =25°C)			Package	Net mass Grams
	V _{RRM} Volts	V _{RSM} Volts	I _{F(AV)} * ¹ Amps.	I _{FSM} Amps.		V _{FM} Max.Volts	I _{RRM} Max.mA	R _{th(j-c)} °C/W		
SIN01-12	1200	1400	340 (T _c =100°C)	7500 * ²	-40 to +160	1.35(I _F =900A)	30	0.15 * ¹	Power M24-1F	500
SIN01-12R	1200	1400	300 (T _c =100°C)	7000 * ²	-40 to +160	1.35(I _F =900A)	25	0.17 * ¹	Power M24-1R	500
SIN03-30	3000	3300	350 (T _c =100°C)	7500 * ²	-40 to +160	1.5 (I _F =900A)	30	0.12 * ¹	Power M24-2F	550
ERN04-20	2000	2400	400 (T _c =100°C)	9000 * ²	-40 to +160	1.35(I _F =900A)	30	0.11 * ¹	Power M24-1F	500
ERP04-25	2500	2750	950 (T _c =100°C)	14500 * ²	-40 to +160	1.5 (I _F =2500A)	30	0.045 * ¹	Power D90	280
ERP04-30	3000	3300								
ERP15-16	1600	1760	960 (T _c =100°C)	14000 * ²	-40 to +160	1.6 (I _F =3500A)	30	0.045 * ¹	Power D56	250
ERR03-25	2500	2750	1600 (T _c =100°C)	27500 * ²	-40 to +160	1.5 (I _F =5000A)	60	0.027 * ¹	Power D95	490
ERR03-30	3000	3300								
ERR15-16	1600	1700	1800 (T _c =99°C)	30000 * ²	-40 to +160	1.45(I _F =5600A)	60	0.027 * ¹	Power D80	400
ERS03-40	4000	4400	1600 (T _c =103°C)	28800 * ²	-40 to +160	1.8 (I _F =5000A)	150	0.020 * ¹	Power D102	700

() Conditions

*¹ 50Hz sine wave, conduction angle 180°

*² 50Hz sine wave, rated load