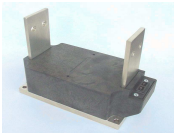
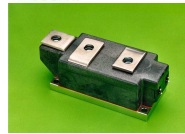
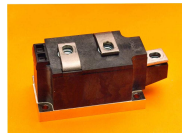


Unité de production
428 avenue Georges Durand BP 23131
72003 LE MANS Cedex 1
France
Tel : 33 (0) 2 43 41 14 14
Fax : 33 (0) 2 43 41 14 02
www.powerex.fr



CD4

CD6

ND4

LD4

LS4

PA4, PD4, PS4

All our standard modules are RoHS compliant



Thyristor isolated Module SELECTOR GUIDE

TYPE	IT(AV) at Tc		ITSM (2) 1 pulse (kA)	I ² for fusing (kA ² s)	storage temperature (°C)	Junction temperature range (°C)	V isolation 25°C (V rms)	VDRM / VRRM max Tj = Tj max (V)	IRRM IDRM typical Tj = Tj max (mA)	Vo Tj = Tj max (V)	rt Tj = Tj max (m°)	RthJC per module Both conducting (°C/W)	RthJC per Junction Both conducting (°C/W)	RthCS per module (°C/W)	tq typical Tj = Tj max (µs)	ton typical (µs)	di/dt Min repetitive (A/µs)	dV/dt Min Tj = Tj max (V/µs)	Igt 25°C (mA)	Vgt 25°C (V)	PACKAGE INFORMATION				
	(A)	(°C)																			current code	Max Mounting torque	Construction	Style	base plate dimensions (mm)
DUAL SCR																									
CD43-90C	90	85	90	2.0@10ms	20.4@10ms	-40 to 125	-40 to 125	2500	1800	10	0.800 ; 3.010	-	0.28	0.15	-	-	-	100	800	100	2.5	(M5) 4 Nm	Compression bonded	Dual SCR	92x21
CD43-99C	100	88	99	2.4@10ms	29@10ms	-40 to 125	-40 to 125	2500	1800	12	0.800 ; 3.010	-	0.25	0.15	-	-	-	100	800	100	2.5	(M5) 4 Nm	Compression bonded	Dual SCR	92x21
CD63-15C	150	86	15	5.4@10ms	146@10ms	-40 to 125	-40 to 125	2500	1800	25	0.800 ; 1.690	-	0.17	0.08	-	-	-	100	800	150	2.5	(M6) 6 Nm	Compression bonded	Dual SCR	94x34
CD63-15C	150	83	15	4.5@10ms	103@10ms	-40 to 125	-40 to 125	3000	2500	25	1.100 ; 1.960	-	0.17	0.08	-	-	-	100	800	150	2.5	(M6) 6 Nm	Compression bonded	Dual SCR	94x34
ND43-21	210	92	21	8.8@8.3ms	320@8.3ms	-40 to 150	-40 to 130	2500	2000	50	0.813 ; 0.810	0.07	0.14	0.03	150	7	800 (3)	500	150	3	(M6) 5 Nm	Compression bonded	Dual SCR	93x50	
ND43-25	250	89	25	8.8@8.3ms	322@8.3ms	-40 to 150	-40 to 130	2500	1600	50	0.819 ; 0.588	0.07	0.14	0.03	150	7	800 (3)	500	150	3	(M6) 5 Nm	Compression bonded	Dual SCR	93x50	
ND43-33	330	71	33	9.18@10ms	421@10ms	-40 to 150	-40 to 130	2500	1600	50	0.819 ; 0.588	0.07	0.14	0.03	150	7	800 (3)	500	150	3	(M6) 5 Nm	Compression bonded	Dual SCR	93x50	
ND43-25	250	89	25	8.8@8.3ms	322@8.3ms	-40 to 150	-40 to 130	2500	2000	50	0.813 ; 0.810	0.07	0.14	0.03	150	7	800 (3)	500	150	3	(M6) 5 Nm	Compression bonded	Dual SCR	93x50	
NDW3-38	380	340(Twater)	38	8.8@8.3ms	322@8.3ms	-40 to 150	0 to 130	2500	1800	50	0.877 ; 0.731	0.068(Rth jw)	0.136(Rth jw)	-	150	7	800 (3)	500	150	3	(M6) 5 Nm	Compression bonded	Dual SCR	93x50(Water cooled)	
LD83-24	240	74	24	8.25@10ms	340@10ms	-40 to 150	-40 to 125	3600	4000	75	1.563 ; 2.141	0.325	0.065	0.01	250	-	150	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Dual SCR	124x60	
LD43-43	430	80	43	10@10ms	500@10ms	-40 to 150	-40 to 125	3000	2200	80	0.880 ; 0.660	0.325	0.065	0.01	-	-	200	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Dual SCR	124x60	
LD43-50 +	500	86	50	16.3@10ms	1330@10ms	-40 to 150	-40 to 130	3000	1600	80	0.810 ; 0.320	0.325	0.065	0.01	-	-	200	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Dual SCR	124x60	
LD431850 +	500	84	50	16.3@10ms	1330@10ms	-40 to 150	-40 to 130	3000	1800	80	0.916 ; 0.280	0.325	0.065	0.01	-	-	200	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Dual SCR	124x60	
LDR3-50 (4)	500	85	50	15.5@10ms Vr=	61200@10ms Vr=C	-40 to 125	-40 to 130	3000	1600-1800	70	0.850 ; 0.400	0.325	0.065	0.01	250	-	400	1000	250	2.5	(M6) 6 Nm	Compression bonded	Dual SCR	124x60	
LDR31870	700	39(Twater)	70	16.3@10ms	1330@10ms	-40 to 150	-40 to 130	3000	1800	80	0.916 ; 0.280	0.05 (Rth jw)	0.100 (Rth jw)	-	-	-	200	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Dual SCR	124x60 (Water Cooled)	
PA43-06	600	81	06	26.9@10ms	3620@10ms	-40 to 150	-40 to 125	4000	2400	100	0.869 ; 0.237	0.029	0.058	0.009	-	-	150	300	200	4.5	(M6) 15 Nm	Compression bonded	Dual SCR	178x102	
PA43-07	700	82	07	36.5@10ms	6660@10ms	-40 to 150	-40 to 125	4000	1800	100	0.703 ; 0.184	0.029	0.058	0.009	-	-	150	300	200	4.5	(M6) 15 Nm	Compression bonded	Dual SCR	178x102	
SINGLE SCR																									
LS93-24	240	74	24	5@10ms	126@10ms	-40 to 150	-40 to 125	3600	4000	75	1.563 ; 2.141	0.065	-	0.02	250	-	150	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Single SCR	92x50	
LS43-43	430	80	43	10@10ms	500@10ms	-40 to 150	-40 to 130	3000	2200	80	0.880 ; 0.660	0.065	-	0.02	-	-	200	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Single SCR	92x50	
LS43-50	500	86	50	16.3@10ms	1328@10ms	-40 to 150	-40 to 130	3000	1600	80	0.810 ; 0.320	0.065	-	0.02	-	-	200	1000 typ	200	3	(M6) 6 Nm	Compression bonded	Single SCR	92x50	
LN43-85	850	89	85	27.7@10ms	3830@10ms	-40 to 150	-40 to 130	3000	1800	160	0.905 ; 0.160	0.0325	-	-	-	-	200	1000 typ	400	3	(M10) 12Nm	Compression bonded	Single SCR	124x60	
PS43-15	1500	76	15	48.9@10ms	12390@10ms	-40 to 150	-40 to 125	3000	2400	300	0.849 ; 0.130	0.024	-	0.009	-	-	150	300	400	4.5	(M6) 15 Nm	Compression bonded	Single SCR	178x102	
PS43-15	1500	86	15	82@10ms	19200@10ms	-40 to 150	-40 to 125	4000	1800	200	0.591 ; 0.184	0.024	-	0.009	-	-	150	300	400	4.5	(M6) 15 Nm	Compression bonded	Single SCR	178x102	
AC SWITCHES																									
PA43-06	600	81	06	26.9@10ms	3620@10ms	-40 to 150	-40 to 125	4000	2400	100	0.869 ; 0.237	0.029	0.058	0.009	-	-	150	300	200	4.5	(M6) 15 Nm	Compression bonded	AC Switch	178x102	
PA43-07	700	82	07	36.5@10ms	6660@10ms	-40 to 150	-40 to 125	4000	1800	100	0.703 ; 0.184	0.029	0.058	0.009	-	-	150	300	200	4.5	(M6) 15 Nm	Compression bonded	AC Switch	178x102	
FAST SWITCH SCR																									
LS461821C0	210	86	21	5.76@10ms	1.66@10ms	-40 to 150	-40 to 125	3000	1800	50	1.810 ; 1.030	0.0781	-	0.02	70	2	800	300	150	3	(M6) 15 Nm	Compression bonded	Single SCR	92x50	

Notes
(1) 180° conduction
(2) 100% reapplied voltage
(3) non repetitive
(4) Leads are hardware included

ORDERING INFORMATION

Example : LD43 16 50 NK

LD4 : LD4 outline
3 : Dual SCR
16 : VRRM/VDRM = 1600 V
50 : IF(AV) = 500 A
NK : NK lead kit

* preliminary data sheet
+ not suitable for new design
All our modules are delivered with hardware and leads

All values shown in this document are subject to change for product improvement. The information, diagrams and all other data included herein are believed to be correct and reliable.