

Value Add Product Matrix



Discrete Diodes and Thyristors

Element Diameter	Package Type	Diodes						Thyristors			
		General Purpose		Fast Recovery		Fast / Soft Recovery		Phase Control		Inverter Grade	
		V _{rr}	I _{avg}	V _{rr}	I _{avg}	V _{rr}	I _{avg}	V _d , V _r	I _{avg}	V _d , V _r	I _{avg}
16 mm (5 - SIZE)	STUD			1400V	175A						
		1600V	150A	1600V	100A			1600V	90A	1600V	80A
23 mm (6 - SIZE)	STUD			1600V	250A			600V	190A		
		2600V	300A	2500V	150A	2500V	150A	1600V	175A	1600V	175A
	DISC			1600V	550A			1200V	400A		
		2600V	500A	2500V	400A	2500V	400A	1600V	300A	1600V	250A
30 mm (7 - SIZE)	STUD	1600V	300A								
		2600V	250A					1800V	550A	1600V	325A
	DISC	1600V	1000A					600V	850A		
		2600V	800A					1800V	750A	1600V	650A
33 mm (7' - SIZE)	STUD	1600V	550A								
		2600V	450A					2400V	350A		
	DISC	1600V	1600A					600V	850A	800V	480A
		2600V	1200A	2600V	1000A	2600V	1000A	2000V	550A	1800V	450A
		4400V	600A	4500V	200A	4500V	200A	2400V	750A	2400V	300A
40 mm (8 - SIZE)	DISC					2000V	2100A	1600V	900A		
		2600V	1200A			2600V	1200A	2400V	750A	2400V	750A
		5200V	690A					4500V	350A		
		6500V	600A	4500V	350A	4500V	350A	6500V	325A		
50 mm (9 - SIZE)	Welding	400V	7450A					800V	3450A		
	DISC							1200V	2500A		
		2200V	2500A					1600V	1640A		
								1800V	2000A		
		3200V	1800A			2600V	2200A	2400V	1500A	2500V	1300A
				3600V	1500A			3200V	1000A		
								3200V	1400A		
		5400V	1200A	4500V	800A	4500V	800A	4500V	800A		
6500V	1200A					6500V	600A				

Discrete Diodes and Thyristors (cont.)

Element Dismeter	Package Type	Diodes						Thyristors			
		General Purpose		Fast Recovery		Fast / Soft Recovery		Phase Control		Inverter Grade	
		V _{rr}	I _{avg}	V _{rr}	I _{avg}	V _{rr}	I _{avg}	V _d , V _r	I _{avg}	V _d , V _r	I _{avg}
67mm (A - SIZE)	Welding	400V	12000A								
	DISC	1200V	4800A								
		2400V	3600A	2500V	1600A	2600V	1600A	2200V	1800A	2200V	1600A
								3200V	1800A		
		4200V	2500A	4500V	1000A	4500V	1000A	4000V	1400A		
		5400V	2000A					4500V	1200A		
		6500V	2000A	6000V	2000A			6500V	900A		
77 mm (B - SIZE)	DISC	600V	7000A					600V	3500A		
		1400V	8000A					1800V	3100A	1400V	1700A
								2100V	2500A	2000V	2100A
								2500V	2300A	2500V	2000A
		3200V	4000A			4000V	1800A	3700V	1800A		
		4500V	4000A			4500V	1600A	4500V	1650A		
		6500V	2500A					6500V	1250A		
		6500V	2850A								
88 mm (C - SIZE)	DISC	600V	8000A					2800V	3400A		
		4500V	5000A					3000V	3400A		
								4500V	3400A		
100 mm (D - SIZE)	DISC	1600V	10000A					600V	8400A		
		3200V	7250A					2000V	5000A		
		4500V	6500A					2400V	4400A		
		6500V	4000A					3200V	4000A		
								4500V	3325A		

Rectifier/Thyristor Modules



Baseplate Width	Dual Diode		SCR/Diode		Dual SCR	
	V	Iavg	V	Iavg	V	Iavg
20.5mm (CD4 – Size)	2500V	100A	1800V	90A	1800V	90A
34mm (CD6 – Size)	3600V	160A	1800V	150A	1800V	150A
50mm (ND – Size)	3400V	260A	1800V	250A	1800V	250A
	2000V	320A	2000V	210A		
	1700V	350A				
60mm (LD – Size)	2600V	600A	1800V	500A	1800V	500A
	4000V	450A	2200V	425A	2200V	425A
					4000V	240A
101mm (PD – Size)	2600V	1100A	1800V	700A	1800V	700A
	4000V	1000A			2400V	600A
	5500V	1400A			4000V	400A
POW-R-BRIK (Z7 – Size)					1400V	450A
			1600V	395A	1600V	375A
	2200V	435A	2200V	380A	2200V	390A
	3000V	355A			3000V	300A
POW-R-BRIK (Z9 – Size)	600V	800A	1600V	590A	1600V	600A
	1200V	740A	2200V	520A	2200V	475A
			3000V	430A	3000V	355A
POW-R-BRIK (ZA – Size)	1200V	1585A	1200V	920A		
	2400V	1420A	2200V	880A	2200V	840A
	4200V	1270A				
	5400V	985A				

Baseplate Width	Single Diode		Single SCR	
	V	Iavg	V	Iavg
50mm (LS – Size)	2600V	600A	1800V	500A
			2200V	425A
101mm (PS – Size)	2400V	2500A	1800V	1500A
	4400V/5000V	1400A		

Powerex will consider other configurations based on the opportunity.