



Case: B-Puk

MAXIMUM RATINGS (T <sub>j</sub> = 25 °C unless stated otherwise)								
Parameter	Symbol	SD800C 24L	SD800C 30L	SD800C 36L	SD800C 40L	SD800C 45L	Unit	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	2400	3000	3600	4000	4500	Volt	
Maximum Average On-State Current	I <sub>F(AV)</sub>	1180 at TC=55°C						Amp
Peak Forward Surge Current	I <sub>FSM</sub>	14240						Amp
Maximum I <sup>2</sup> T for Fusing	I <sup>2</sup> T	845						A <sup>2</sup> /S
Maximum Storage Temperature Range	T <sub>(STG)</sub>	-55 to +200						°C
Maximum Junction Temperature Range	T <sub>j</sub>	-40 to +150						°C

ELECTRICAL CHARACTERISTICS at 25 °C Maximum Unless Stated Otherwise			Value			Unit
Parameter	Symbol	Condition	Min	Typ	Max	
Maximum Forward Voltage	V <sub>FM</sub>	I <sub>pk</sub> = 2000 Amps 2400-3600V			1.66	Volt
Maximum Forward Voltage	V <sub>FM</sub>	I <sub>pk</sub> = 2000 Amps 4000-4500V			1.95	Volt
Repetitive Peak Off- State Current at TC=175°C	I <sub>RRM</sub>	V <sub>R</sub> = V <sub>RRM</sub>			50.0	mA
Thermal Resistance (Junction toHeatsink)	R <sub>TH (J-H)</sub>				0.73	°C/W
Mounting Torque	M <sub>T</sub>				14700	NM
Weight	Wt				255	grms

**Mechanical Dimensions**

