



Positive temperature coefficient  
Temperature-independent switching  
Maximum working temperature at 175 °C  
Unipolar devices and zero reverse recovery current  
Zero forward recovery current  
Essentially no switching losses  
Reduction of heat sink requirements  
High-frequency operation  
Reduction of EMI

Typical applications are in power factor correction(PFC), solar inverter, uninterruptible power supply, motor drives, photovoltaic inverter, electric car and charger.



(Per Leg)

Forward voltage drop	$V_F$	V	$I_F=20A, T_J=25^\circ C$	1.35	

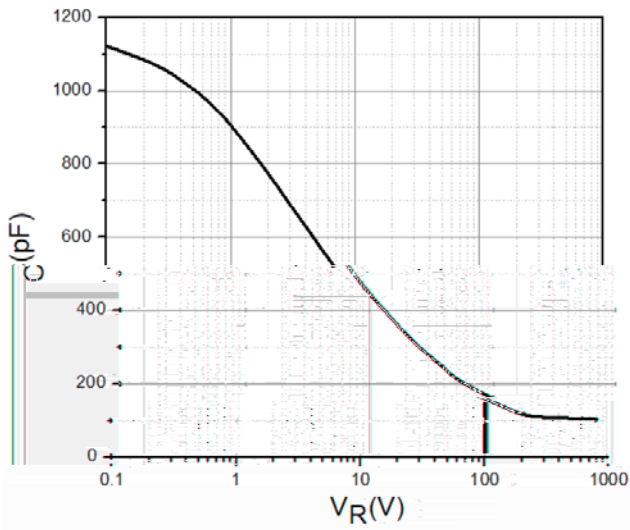


Figure 3. Capacitance vs. Reverse Voltage

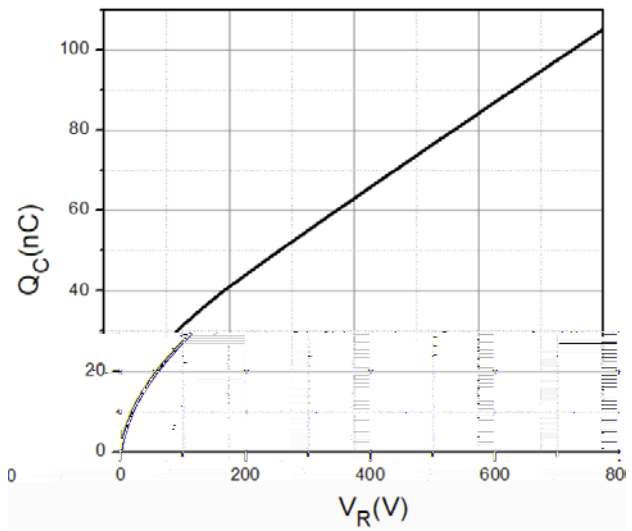


Figure 4. Total Capacitance Charge vs. Reverse Voltage

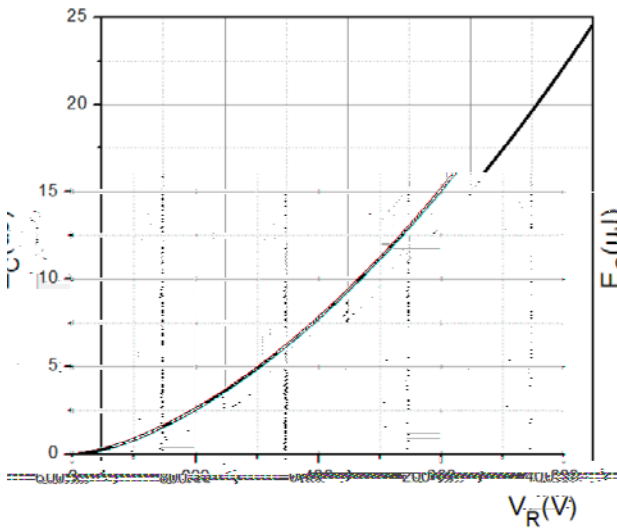


Figure 5. Capacitance Stored Energy

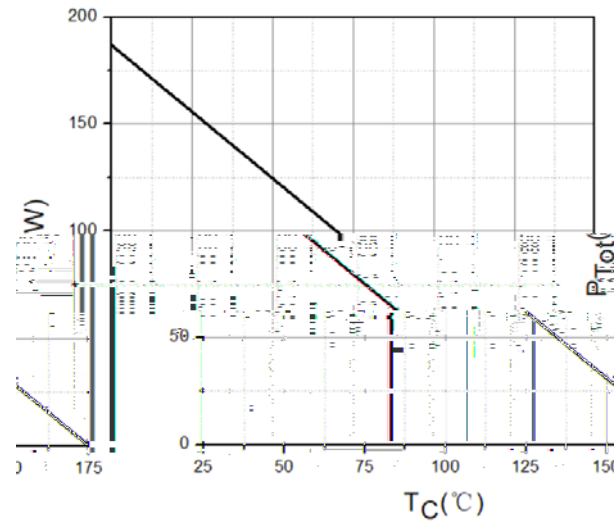


Figure 6. Power Derating

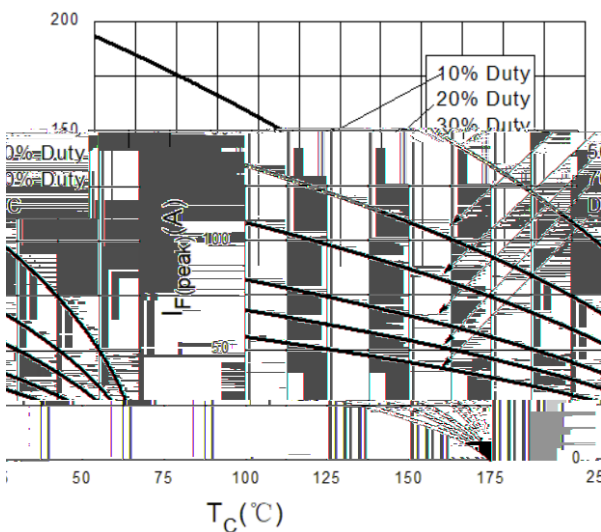


Figure 7. Current Derating

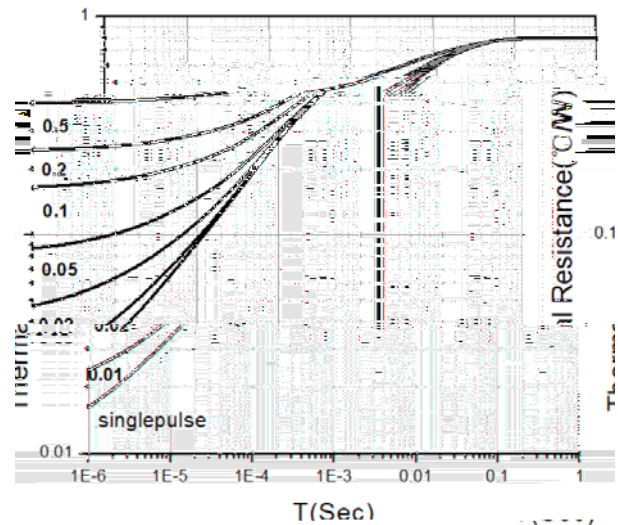
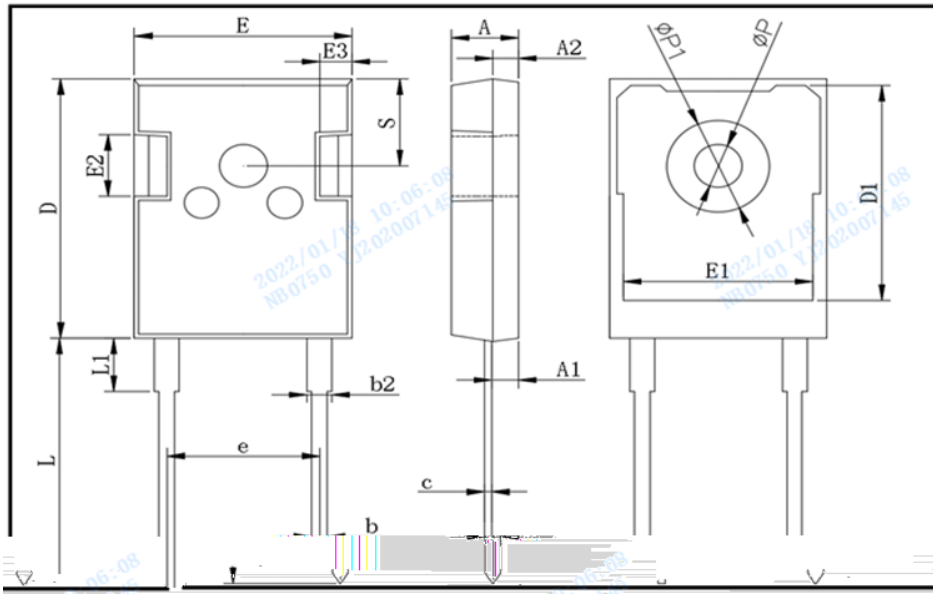


Figure 8. Transient Thermal Impedance



Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.11	1.36
b2	1.91	2.21
c	0.51	0.75
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.00	13.60
E2	4.80	5.20
E3	2.30	2.70
e	10.88BSC	
L	19.62	20.22
L1	-	4.30
P	3.40	3.80
P1	-	7.30
S	6.15BSC	



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