e coefficient endent switching emperature at 175 °C d zero reverse recovery current ery current hing losses ink requirements ration

re in power factor correction(PFC), solar le power supply, motor drives, photovoltaic nd charger.

ied leads d

D112005FG1	
1200	
1200	
1200	
10	
5	
4.5	
52	
31	
13	
13	
-55 to +175	

Т

Forward voltage drop	V <sub>F</sub>	v	I <sub>F</sub> =5A, T <sub>j</sub> =25°C	1.4	1.57
			I <sub>F</sub> =5A, T <sub>j</sub> =175°C	2.0	-
Reverse leakage current	I <sub>R</sub>		V <sub>R</sub> =1200V, T <sub>j</sub> =25°C	1.8	16
			V <sub>R</sub> =1200V, T <sub>j</sub> =175°C	10	-
Total capacitive charge	Qc	nC	$V_R=800V, T_j=25^{\circ}C, 0^{VR}C(V)dV$	37	
Total capacitance	С	pF	V <sub>R</sub> =0V, f=1MHZ	410	-
			V <sub>R</sub> =400V, f=1MHZ	35	-
			V <sub>R</sub> =800V, f=1MHZ	27	-
Capacitance Stored Energy	Ec		V <sub>R</sub> =800V	10	-

Ta=25 Unless otherwise specified

Thermal resistance	R <sub>-c</sub>	°CW	4.8

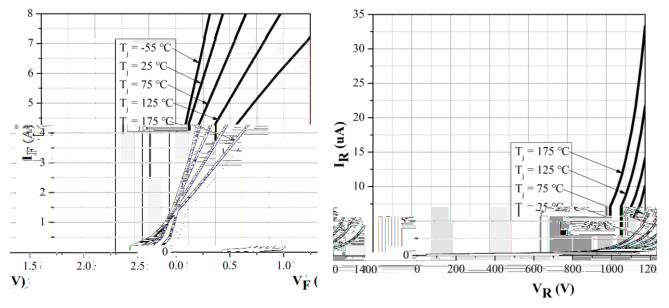


Figure 1. Forward Characteristics

Figure 2. Reverse Characteristic

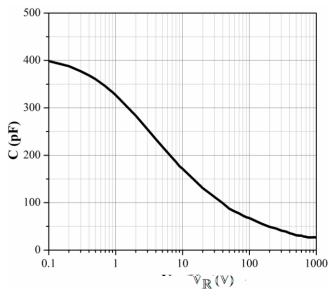
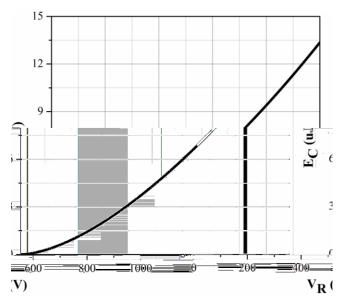
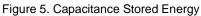
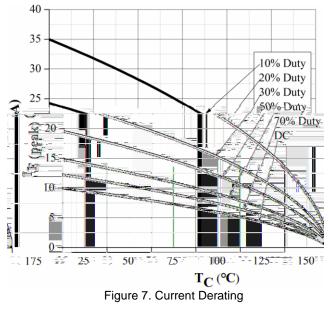


Figure 3. Capacitance vs. Reverse Voltage







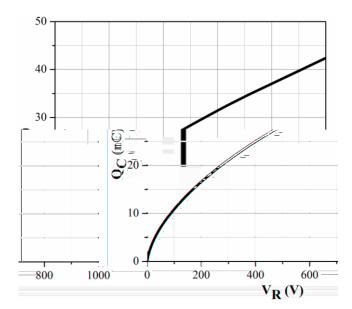
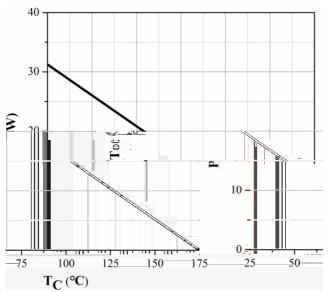
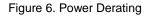
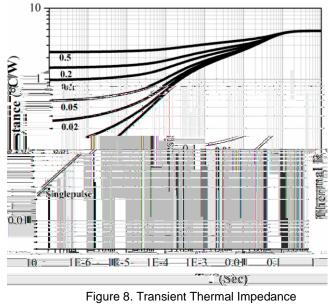


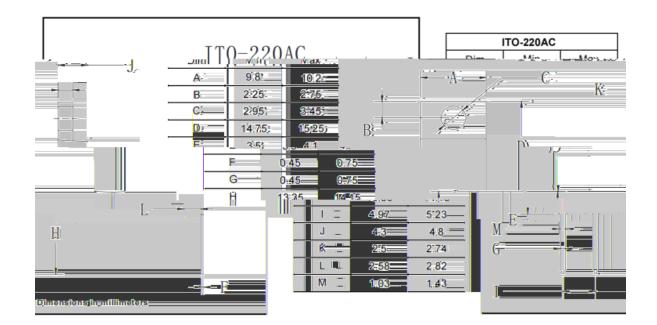
Figure 4. Total Capacitance Charge vs. Reverse Voltage







3/5



The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.frxelec.com, or consult your nearest Yan