

YJD112040NQG2

Cilican Carbida Sabattley Diada

ig 175 °C recovery current

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ctor correction(PFC), solar y, motor drives, photovoltaic

YJD112040NQG2

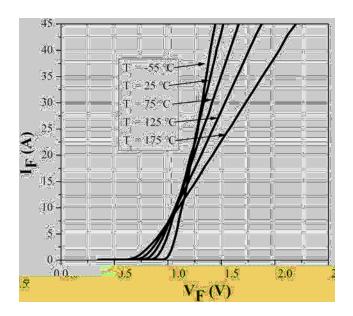
Electrical Characteristics

PARAMTETER	SYMBOL	UNIT	TEST CONDITIONS	Тур.	Max.
Forward voltage drop	V _F	V	I _F =40A, T _j =25°C	1.41	1.58
			I _F =40A, T _j =175°C	2.02	
Reverse leakage current	I _R	μА	V _R =1200V, T _j =25°C	3.1	38
			V _R =1200V, T _j =175°C	19	
Total capacitive charge	Q _C	nC	$V_R=800V, T_j=25^{\circ}C, QC={_0}^{VR}C(V)dV$	216	
Total capacitance	С	pF	V _R =0V, f=1MHZ	2900	
			V _R =400V, f=1MHZ	204	
			V _R =800V, f=1MHZ	156	
Capacitance Stored Energy	Ec	μJ	V _R =800V	55	

Thermal Characteristics $(T_a=25^{\circ}C \text{ Unless otherwise specified})$

PARAMETER	SYMBOL	UNIT	VALUE
Thermal resistance	R _{J-C}	°C W	0.34

Characteristics (Typical)





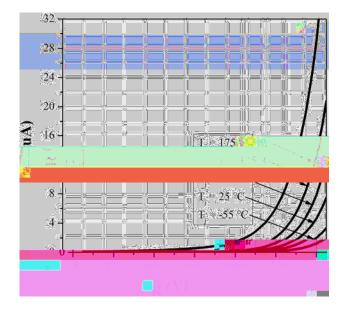
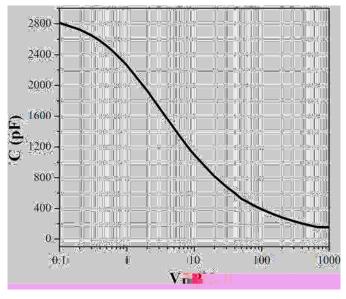


Figure 2. Reverse Characteristic





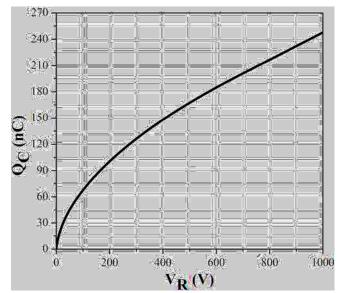
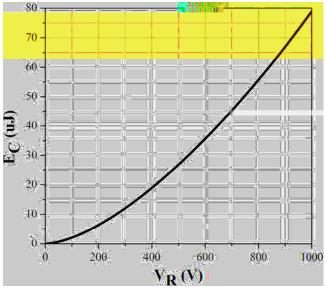


Figure 3. Capacitance vs. Reverse Voltage

Figure 4. Total Capacitance Charge vs. Reverse Voltage



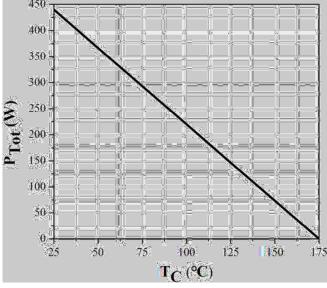
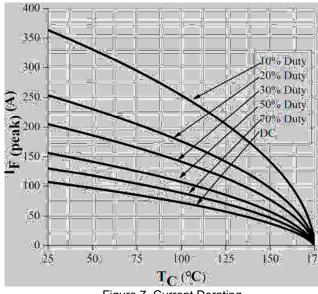


Figure 5. Capacitance Stored Energy

Figure 6. Power Derating



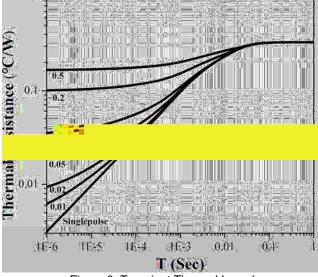
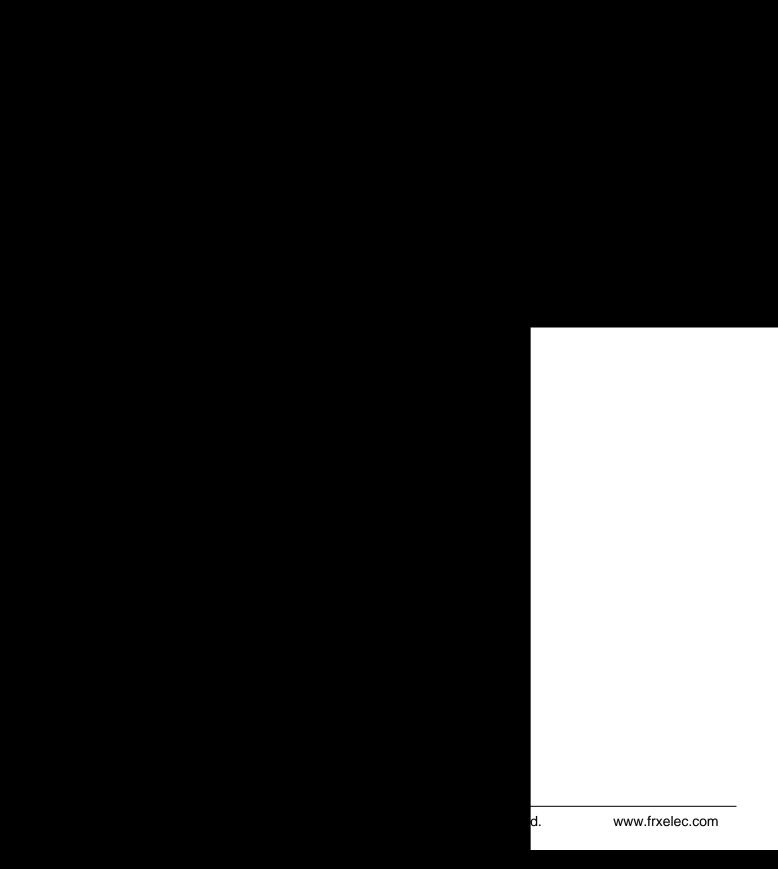


Figure 7. Current Derating

Figure 8. Transient Thermal Impedance





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