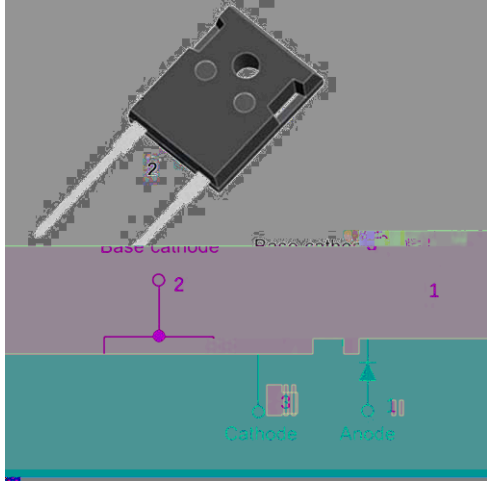


V_{RRM}	1200V
I_F 135°C	83A
Q_C	328nC



Typical Applications

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

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Device marking code			D112060NQG2
Reverse voltage (Repetitive peak) @ $T_j=25^\circ\text{C}$	V_{RRM}	V	1200
Reverse voltage (Surge peak) @ $T_j=25^\circ\text{C}$	V_{RSM}	V	1200
Reverse voltage (DC) @ $T_j=25^\circ\text{C}$	V_{DC}	V	1200
Continuous forward current @ $T_c=25^\circ\text{C}$			177
Continuous forward current @ $T_c=135^\circ\text{C}$	I_F	A	83

Continuous forwaPower Dissipation@ T

$c=110^\circ\text{C}$			342
i^2t Value@ $T_c=25^\circ\text{C}$,tp=10ms	i^2t	A^2S	1012
Operating junction and Storage temperature range	T_j, T_{stg}	$^\circ\text{C}$	-55 to +175



Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Typ.	Max.
Forward voltage drop	V_F	V	$I_F=60A, T_j=25^{\circ}C$	1.45	1.55
			$I_F=60A, T_j=175^{\circ}C$	2.05	-
Reverse leakage current	I_R	μA	$V_R=1200V, T_j=25^{\circ}C$	2	20
			$V_R=1200V, T_j=175^{\circ}C$	15	-
Total capacitive charge	Q_C	nC	$V_R=800V, T_j=25^{\circ}C, Q_C=\int_0^{V_R} C(V)dV$	328	-
Total capacitance	C	pF	$V_R=0V, f=1MHz$	4750	-

