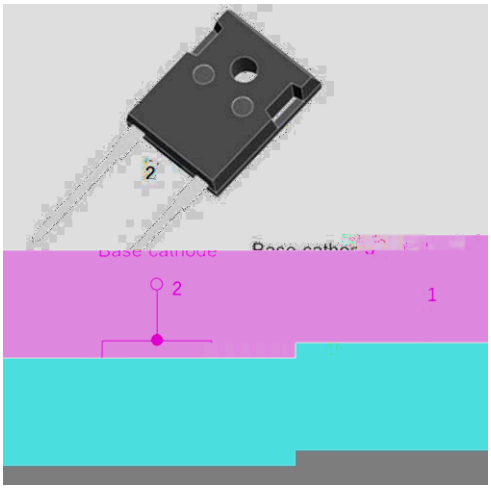
YJD112060NQG2

RoHS COMPLIANT

- ŏ Unipolar device
- ŏ Zero forcwoavredy c
- ŏ Essentially no
- ŏ Reduction of he
- ŏ High-frequency
- ŏ Reduction of EM

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.

Mecha ŋ ' VALUE

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

Continuous forwaPower Dissipation@ T

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

■Electrical Characteristics

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