

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

- **Package:** TO-247AC
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads
- **Polarity:** As marked

PARAMTETER	SYMBOL	UNIT	VALUE
Device marking code			D106550NQG3
Reverse voltage (rep	E	°sNI	ÆCI

Power Dissipation@ T _c =110°C			196
i ² t Value@ T _c =25°C ,t _p =10ms	∫i ² dt	A ² S	722
Operating junction and Storage temperature range	T _j ,T _{stg}	°C	-55 to +175



YJD106550NQG3

■Electrical Characteristics (Per Leg)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Typ.	Max.
Forward voltage drop	V_F	V	$I_F=50A, T_J=25^{\circ}C$	1.45	1.6
			$I_F=50A, T_J=175^{\circ}C$	1.9	-
Reverse leakage current	I_R	μA	$V_R=650V, T_J=25^{\circ}C$	3	25
			$V_R=650V, T_J=175^{\circ}C$	20	-
Total capacitive charge	Q_C	nC	$V_R=400V, T_J=25^{\circ}C, Q_C=\int_0^{V_R} I_C(V) dV$	135.3	-
Total capacitance	C	pF	$V_R=0V, f=1MHz$	2453	-
			$V_R=200V, f=1MHz$	247	-
			$V_R=400V, f=1MHz$	243	-
Capacitance Stored Energy	E_C	μJ	$V_R=400V$	16.5	-

■Thermal Characteristics ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Value
Thermal resistance	$R_{\theta J-C}$	$^{\circ}C/W$	0.33

■Typical Characteristics

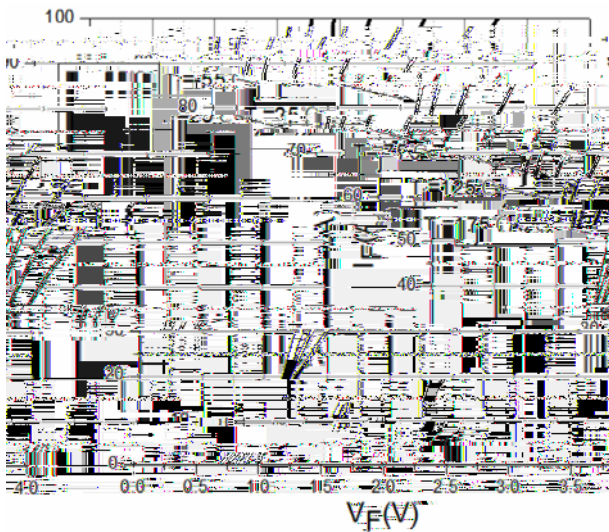


Figure 1. Forward Characteristics

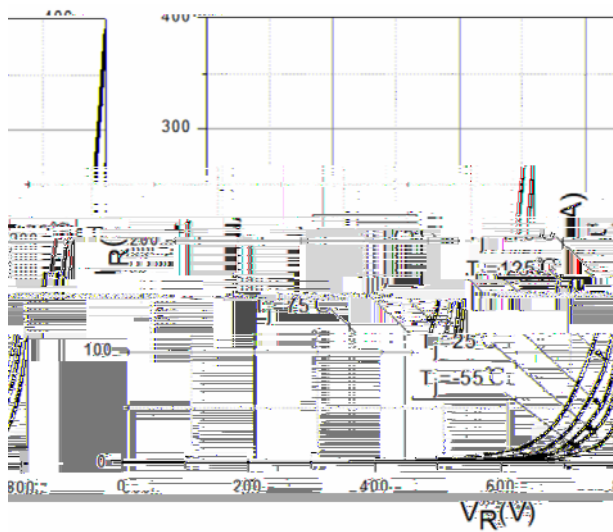


Figure2. Reverse Characteristic

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