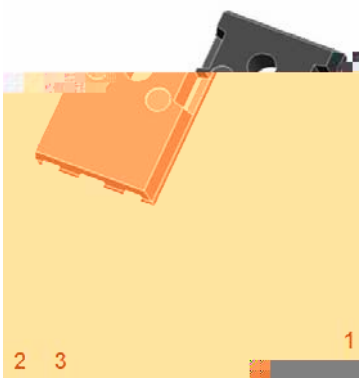
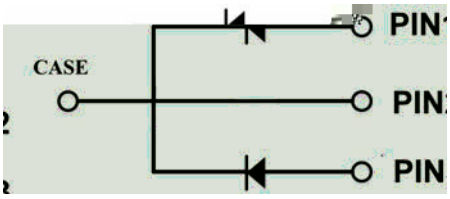
YJD106520NCTQG2Q

RoHS
COMPLIANT

V_{RRM}	650V
$I_{F\ 135°C}$	26A(2)
Q_C	60nC(2)





Typical Applications

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

Mechanical Data

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

■Maximum Ratings (T_C=25 Unless otherwise specified)

PARAMTETER	SYMBOL	UNIT	VALUE
Device marking code			D106520NCTQG2
Reverse voltage (repetitive peak) @ T_j=25°C	V_{RRM}	V	650
Reverse voltage (Surge Peak) @ T_j=25°C	V_{RSM}	V	650
Reverse voltage (DC) @ T_j=25°C	V_{DC}	V	650
Continuous forward current @ T_c=25°C	I_F	A	27/54
Continuous forward current @ T_c=135°C			13/26
Continuous forward current @ T_c=150°C			10/20
Non-repetitive peak forward surge current @ T_c=25°C, tp=10ms, Half Sine Wave	I_{FSM}	A	70(1)
Power Dissipation@ T_c=25°C	P_{TOT}	W	112/230
Power Dissipation@ T_c=110°C			48/100
i^2t Value@ Tc=25°C ,tp=10ms	$\int i^2dt$	A^2S	32(1)
Operating junction and Storage temperature range	T_j ,T_{stg}	°C	-55 to +175

(1) Per Leg, (2) Per Device

www.2 3 Unipolar de
● Zero forward recovery cu
● Essentially no switching

v(OHFWULFDO &KDUDFWHULVWLFV

3$5$07(7(5	6<0%2	81,7	7(67 &21',7,21	7\S	0D[
)RUZDUG YROWDJH GURS	)		,) $ M 7 f & 9 9		
			,) $ M 7 f &		
5HYHUVH OHDNDJH FXUUHQW	5		9 5 9 M 7 f & , $		
			9 5 9 M 7 f &		
7RWDO FDSDFLWLYH FKDUJH	&		9 5 9 M 7 f & 4 & e & 9 G 9		
7RWDO FDSDFLWDQFH			9 5 9 I 0 + =		
			9 5 & 9 I S0 + =		
			9 5 9 I 0 + =		
&DSDFLWDQFH 6WRUHG (QHUJ\	&		5 0 -		

v7KHUPDO &KDUDFWHULVWLFV RWKHUZLVH VSHFLILHG

3$5$0(7(5	6<0%2/	81,7	9DOXH
7KHUPDO UHVLVWDQFH			

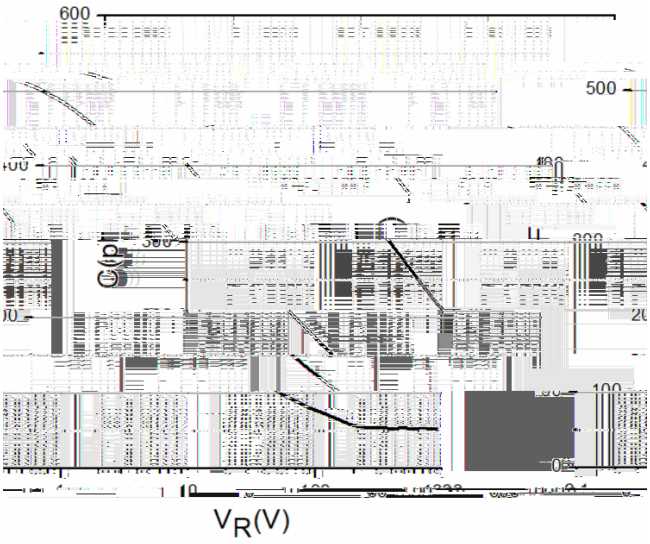


Figure 3. Capacitance vs. Reverse Voltage

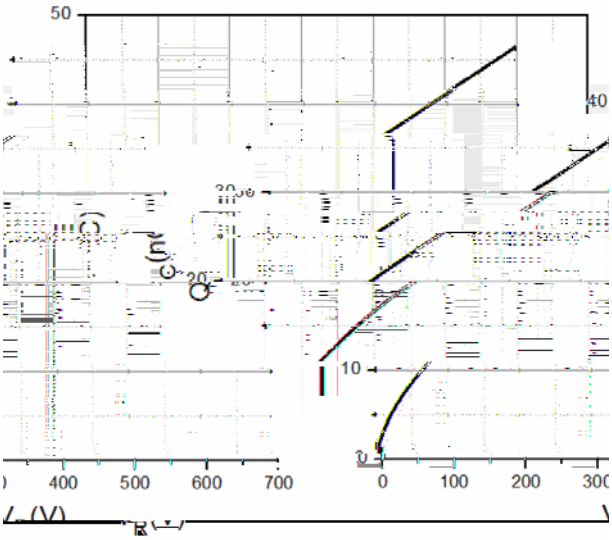


Figure 4. Total Capacitance Charge vs. Reverse Voltage

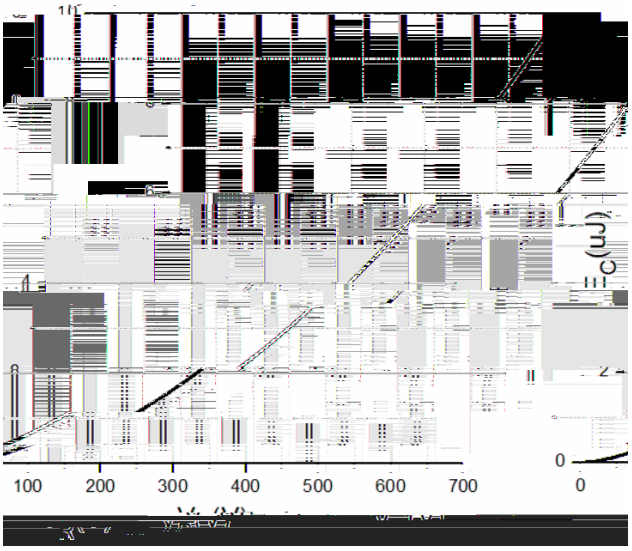


Figure 5. Capacitance Stored Energy

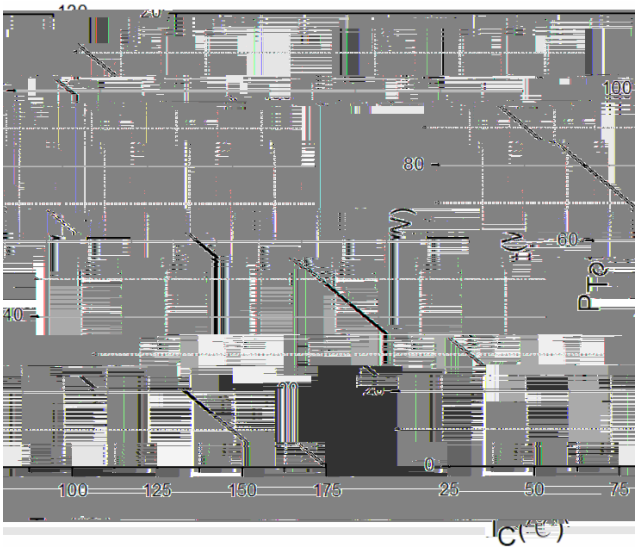


Figure 6. Power Derating

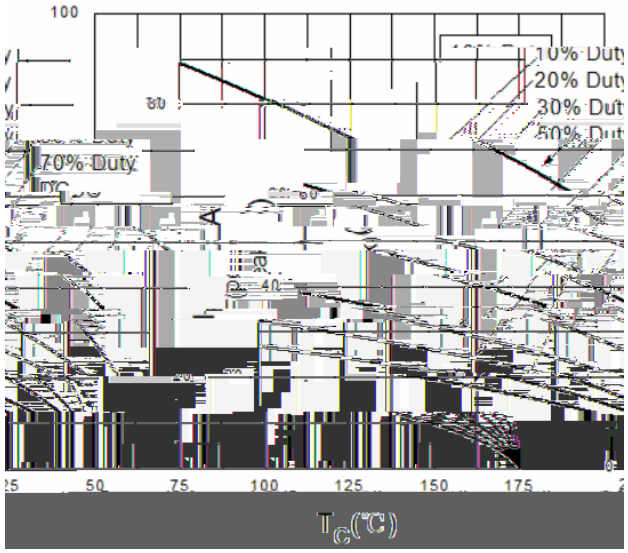
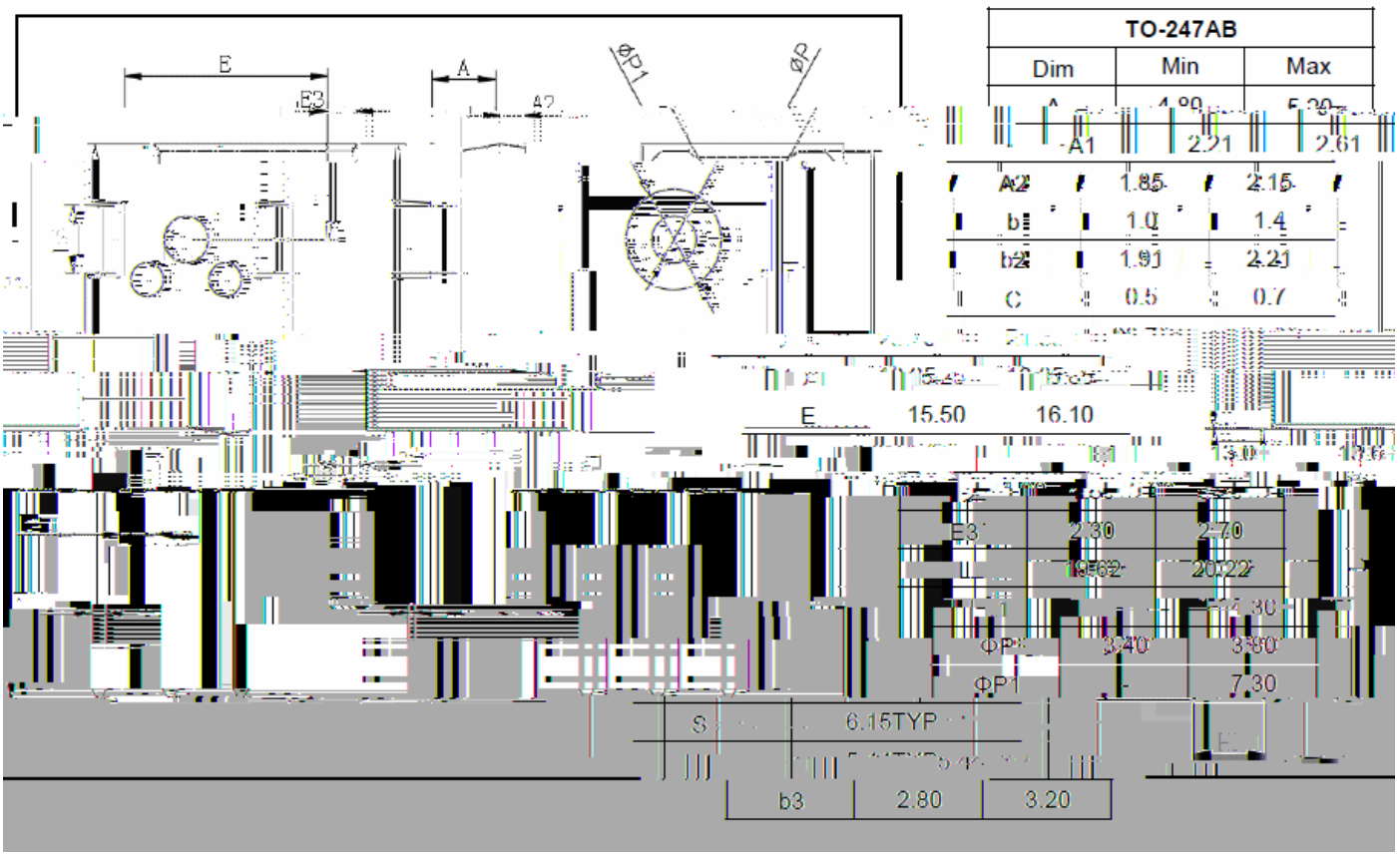


Figure 7. Current Derating

■**Typical Characteristics** (Device)

■Outline Dimensions



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