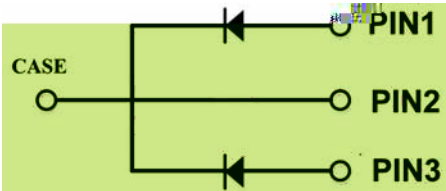
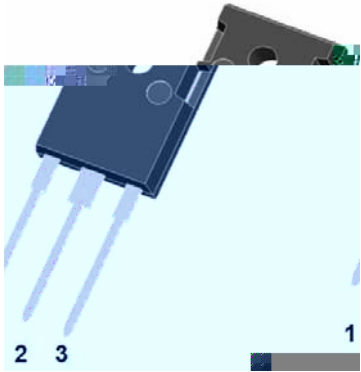


V_{RRM}	650V
I_F 135°C	26A ⁽²⁾
Q_C	60nC ⁽²⁾



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 ² t Value@ T _c =25°C ,tp=10ms	$\int i^2 dt$	A ² S	32 ⁽¹⁾
Operating junction and Storage temperature range	T _j ,T _{stg}	°C	-55 to +175

(1) Per Leg, (2) Per Device

v(OHFWULFDO &KDUDFWHULVWLFDV

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)RUZDUG YROWDJH GURS	)		) \$ M f&		
			9 9		
5HYHUVH OHDNDJH FXUUHQW	5		) \$ M f&		
			9 ₅ 9 M f&		
7RWDO FDSDFLWLYH FKDUJH	&		9 ₅ 9 M f&		
			4 & 9 G9		
7RWDO FDSDFLWDQFH			9 ₅ 9 I 0+=		
			9 ₅ & 9 I S0+=		
			9 ₅ 9 I 0+=		
&DSDFLWDQFH 6WRUHG (QHJ\	&		5 9 -		

v7KHUPDO &KDUDFWHULVWLFDV RWKHUZZLVH VSHFLILHG

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7KHUPDO UHVLVWDQFH

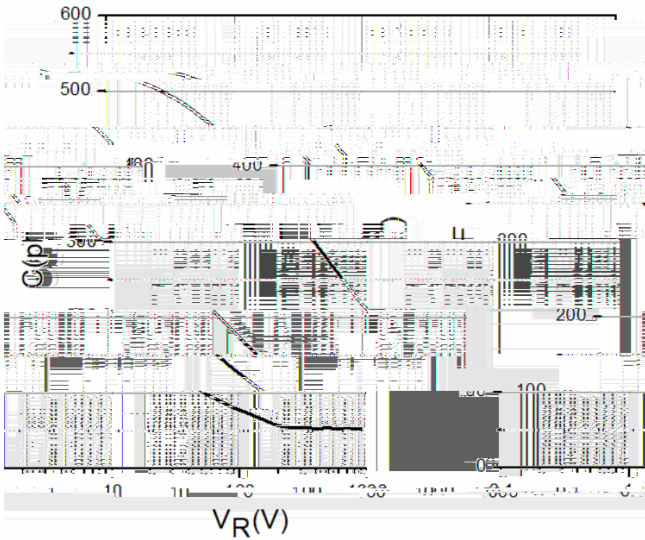


Figure 3. Capacitance vs. Reverse Voltage

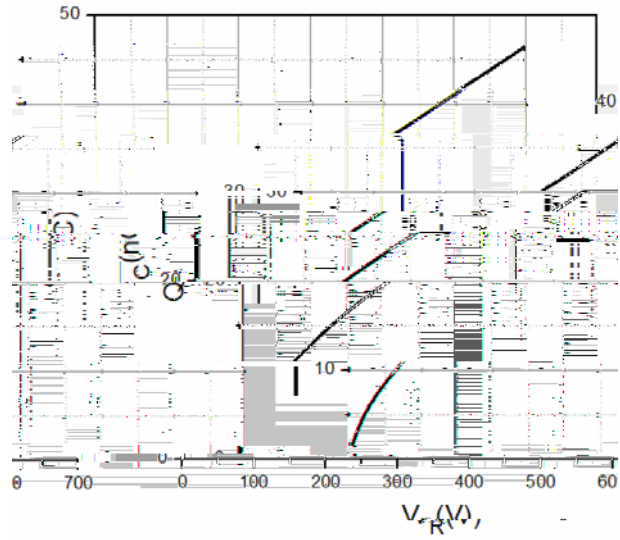


Figure 4. Total Capacitance Charge vs. Reverse Voltage

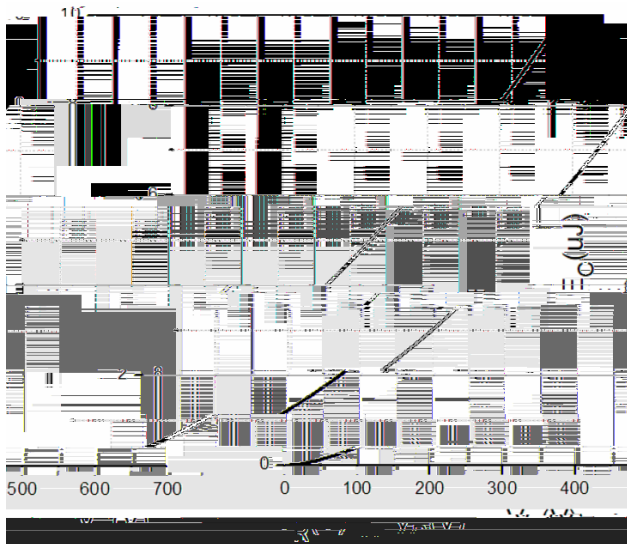


Figure 5. Capacitance Stored Energy

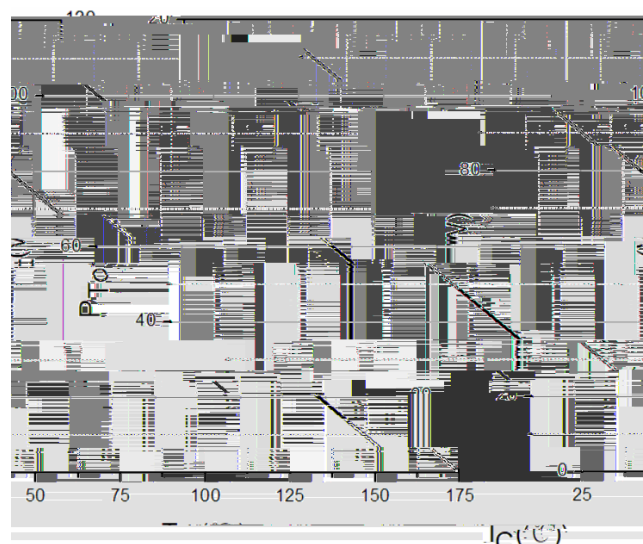


Figure 6. Power Derating

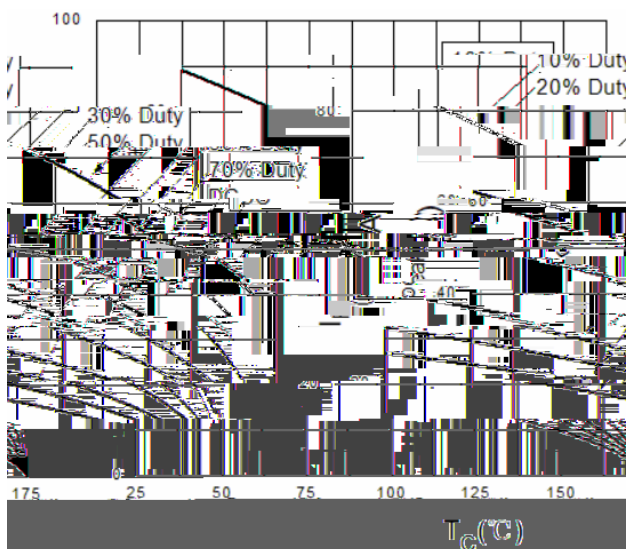


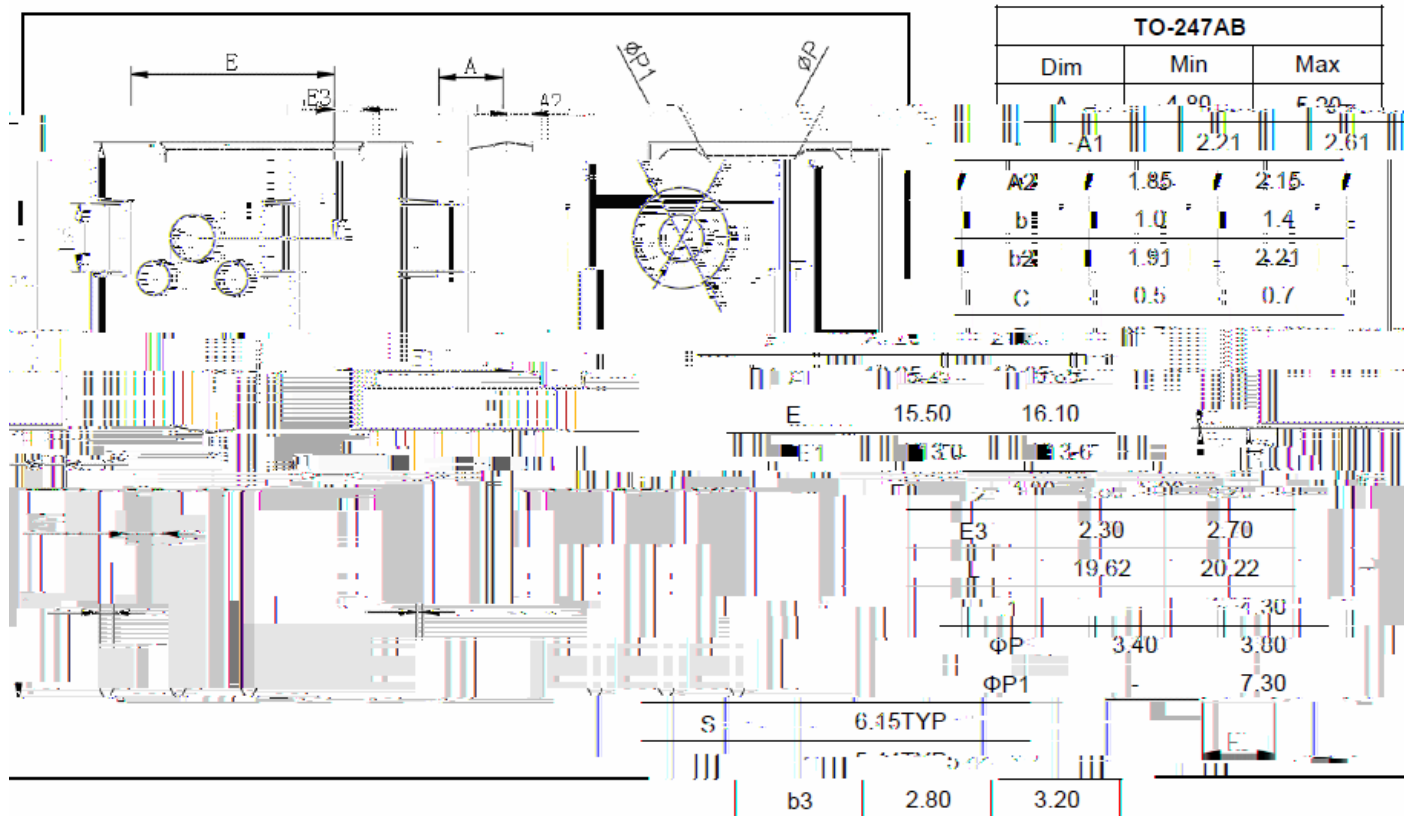
Figure 7. Current Derating



■Typical Characteristics (Device)



■Outline Dimensions





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