



DP45C120

主要参数 MAIN CHARACTERISTICS

IF(AV)	45A
VR	1200 V
Tj(max)	150°C
VF(typ)25°C	1.1V

用途

- 吸收回路
- 开关电源
- 高频开关器件并联二极管

APPLICATIONS

- Snubber diode
- Switch power supply
- Antiparalle Diode for high frequency switching devices

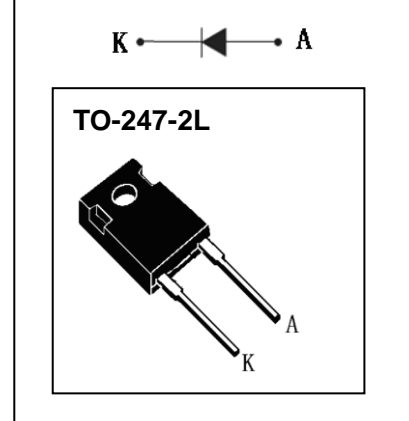
产品特性

- 低功耗，高效率
- 高可靠性
- 环保（RoHS）产品

FEATURES

- Low power loss, high efficiency
- High reliability
- RoHS product

封装 Package



订货信息 ORDER MESSAGE

订货型号 Order codes		印记 Marking	封装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube		
DP45C120-GL-B	DP45C120-GL-BR	DP45C120	TO-247-2L

**绝对最大额定值 ABSOLUTE RATINGS ($T_C=25^\circ\text{C}$)**

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向重复峰值电压 Repetitive peak reverse voltage	V_{RRM}	1200	V
正向平均整流电流 Average forward Current $T_C=100^\circ\text{C}$	$I_{F(AV)}$	45	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) $t=8.3\text{ms}$	I_{FSM}	360	A
电流平方时间积 Current squared time $1\text{ms} \leq t < 10\text{ms}$ $T_j=25^\circ\text{C}$	I^2t	600	A^2S
结温 Junction Temperature	T_j	$-50 \sim +150$	$^\circ\text{C}$
储存温度 Storage temperature range	T_{STG}	$-50 \sim +150$	$^\circ\text{C}$

电特性 ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$ unless otherwise specified)

项 目 Parameter	测试条件 Tests conditions		最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V_{RRM}	$I_R=100\mu\text{A}$		1200	-	-	V
I_R	$T_j=25^\circ\text{C}$	$V_R=V_{RRM}$	-	-	10	μA
	$T_j=150^\circ\text{C}$		-	-	20	μA
V_F	$T_j=25^\circ\text{C}$	$I_F=45\text{A}$	-	1.10	1.30	V
	$T_j=150^\circ\text{C}$		-	1.04	1.24	V

热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	$R_{th(j-c)}$	-	0.7	0.8	$^\circ\text{C}/\text{W}$



特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

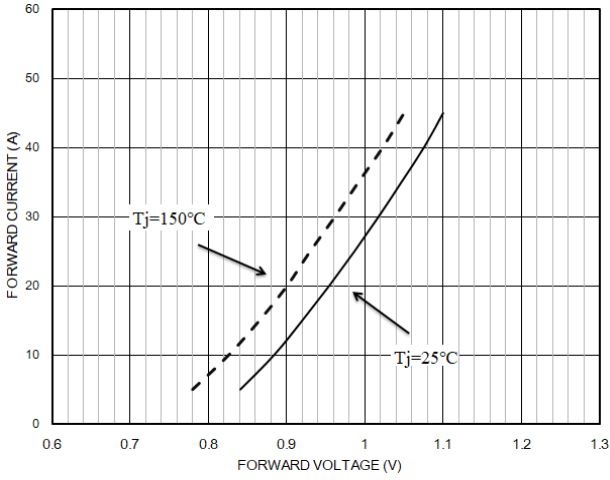


Fig.2 TYPICAL REVERSE CHARACTERISTICS

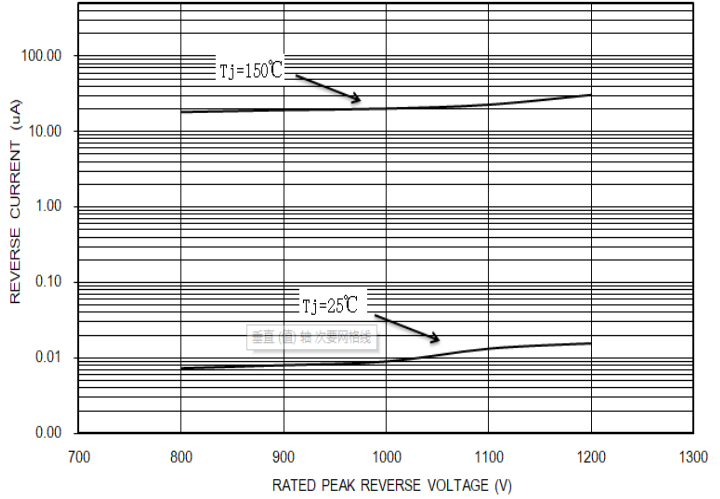


FIG.3 FORWARD POWER DISSIPATION

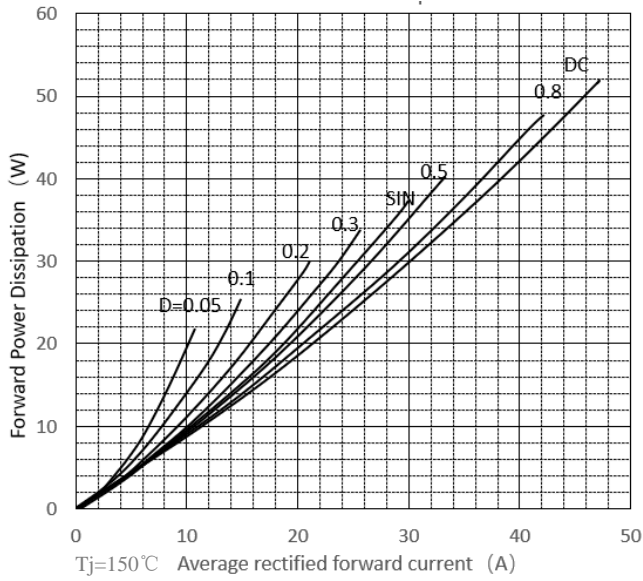


FIG.4 DERATING CURVE VS CASE TEMPERATURE

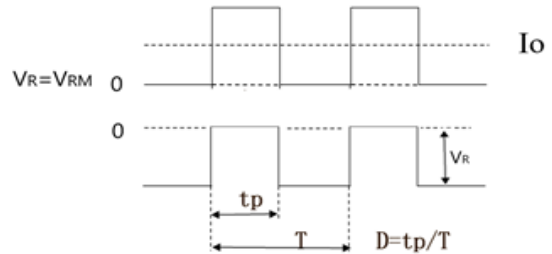
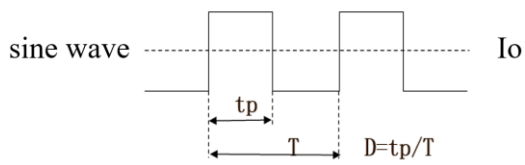
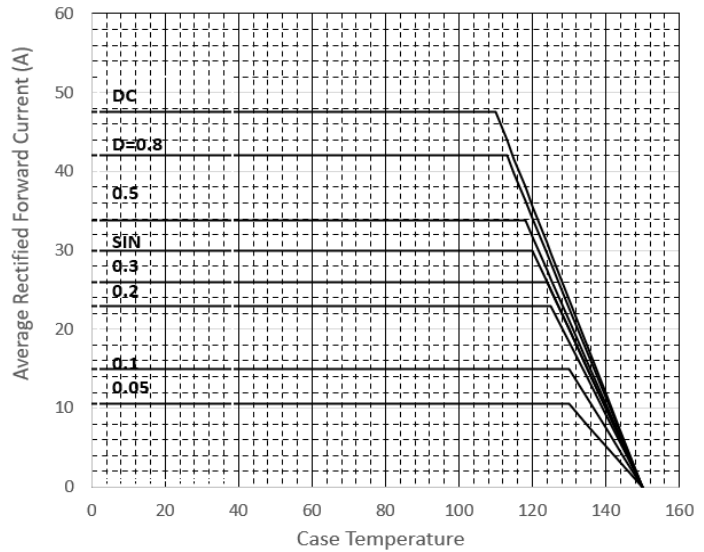
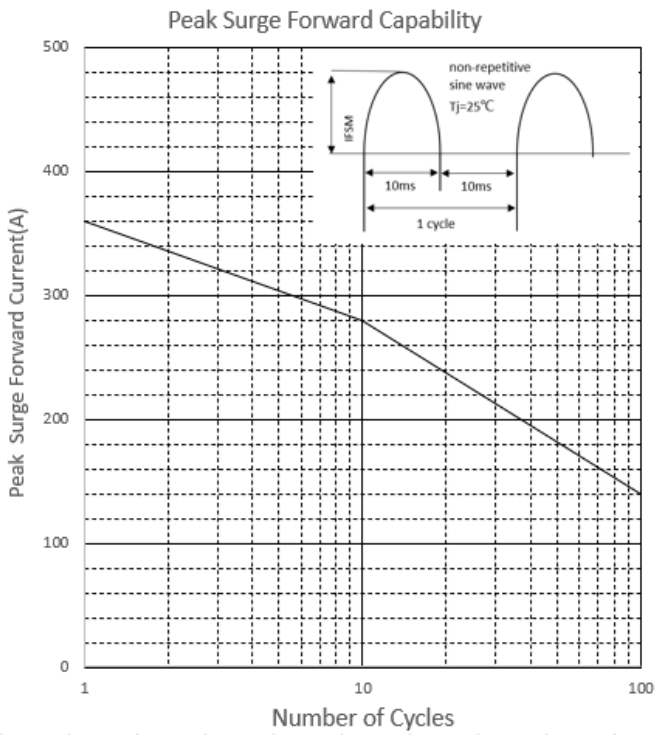


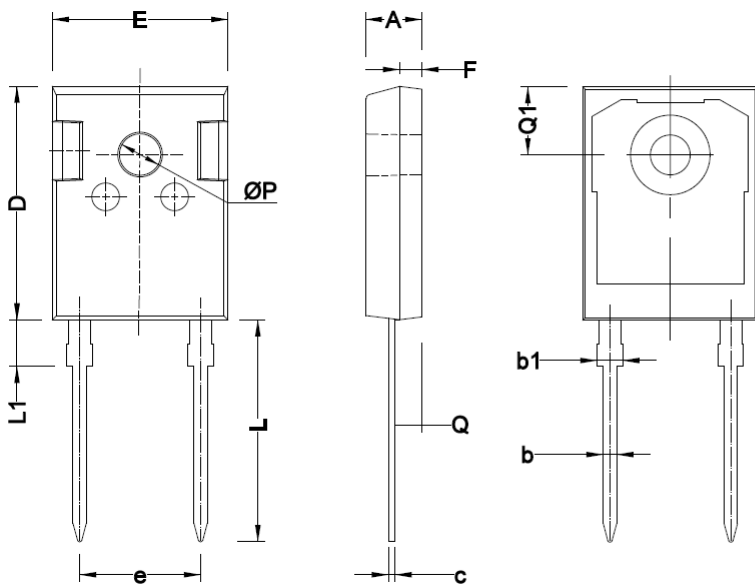


FIG.5 FORWARD POWER DISSIPATION



TO-247-2L

单位 Unit : mm



SYMBOL	MM	
	MIN	MAX
A	4.80	5.20
b	1.10	1.30
b1	1.95	2.25
c	0.50	0.70
D	20.80	21.20
E	15.60	16.00
F	1.85	2.15
e	10.73	11.03
L	19.62	20.22
L1	3.93	4.33
ØP	3.40	3.80
Q	2.26	2.56
Q1	6.00	6.40



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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知。

NOTE

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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