



DP45C120

主要参数 MAIN CHARACTERISTICS

$I_F(AV)$	45A
V_R	1200 V
$T_j(max)$	150°C
$V_F(typ)25^{\circ}C$	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

K → A

TO-247-2L



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

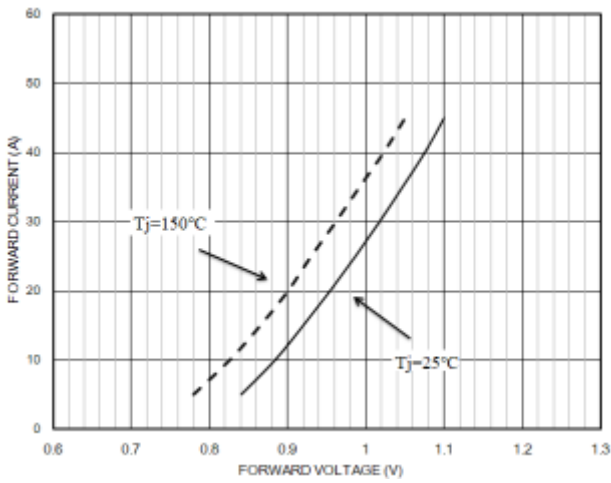


Fig.2 TYPICAL REVERSE CHARACTERISTICS

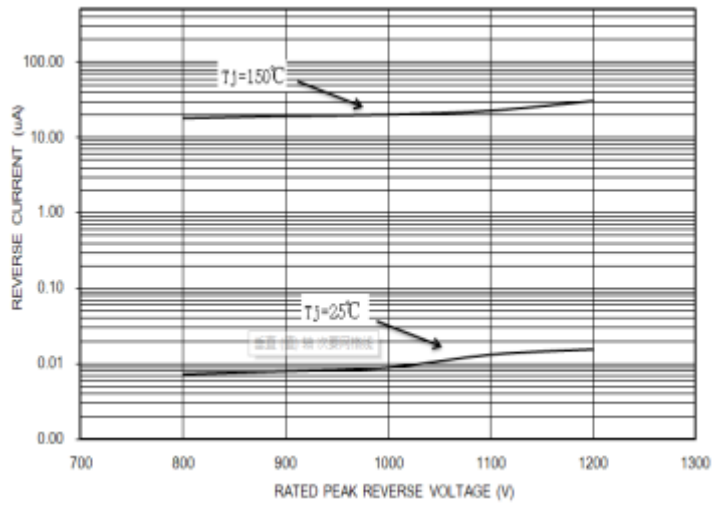


FIG.3 FORWARD POWER DISSIPATION

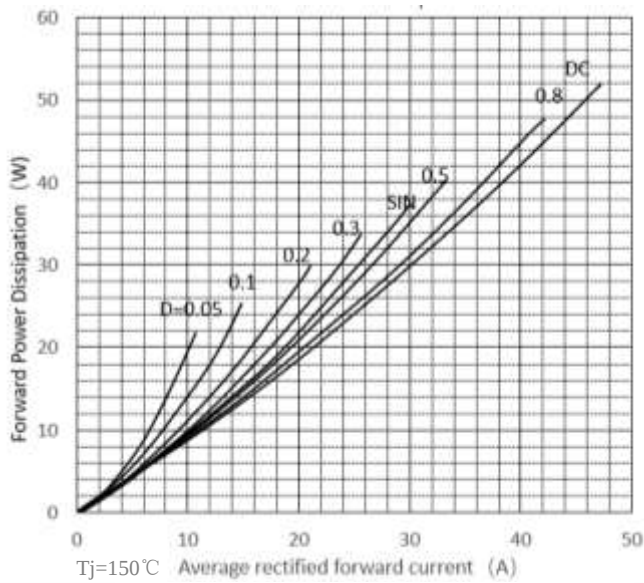


FIG.4 DERATING CURVE VS CASE TEMPERATURE

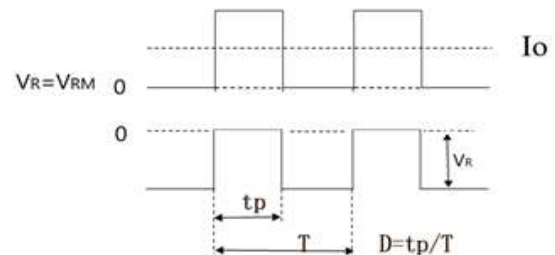
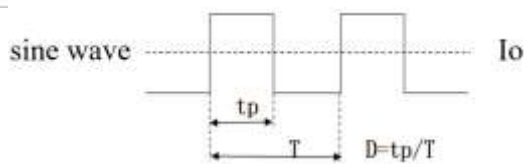
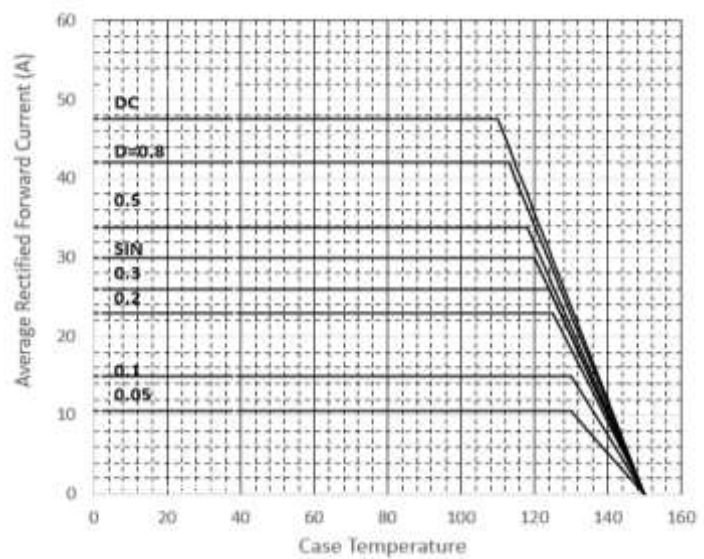
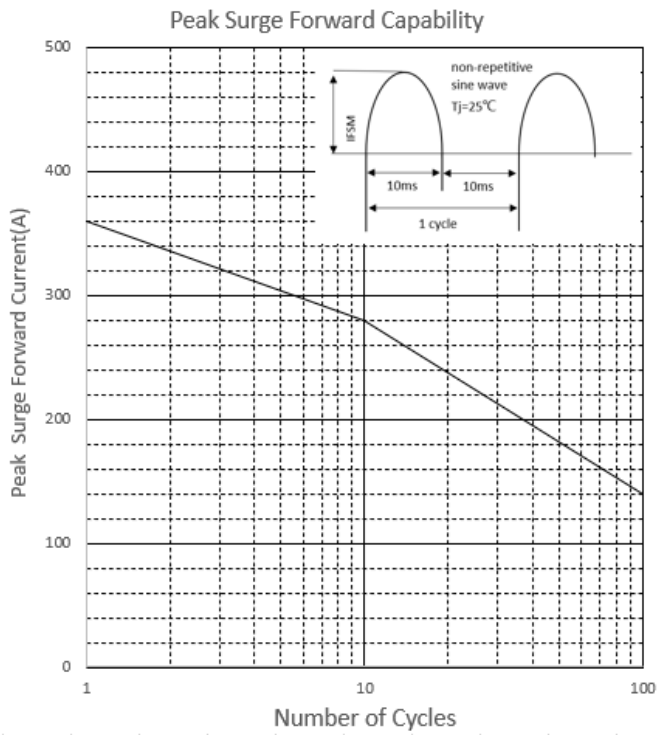


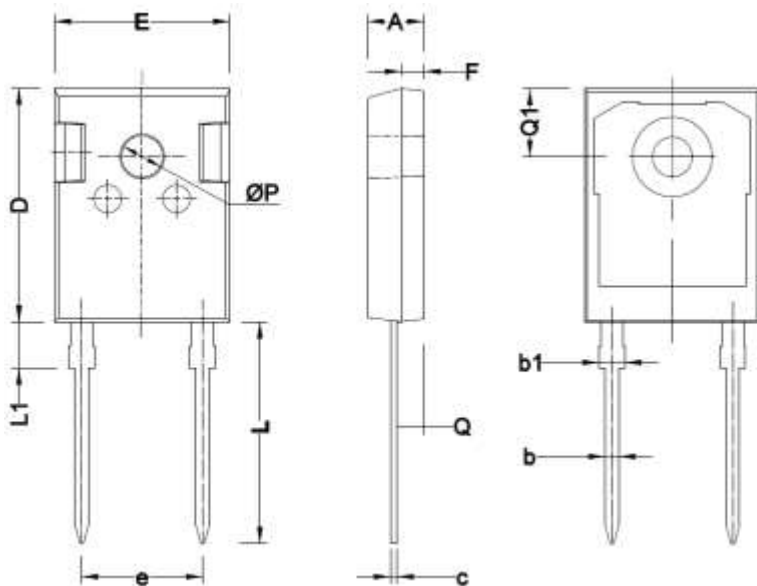


FIG.5 FORWARD POWER DISSIPATION



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



注意事项

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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

1. Jilin Sino-microelectronics co., Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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