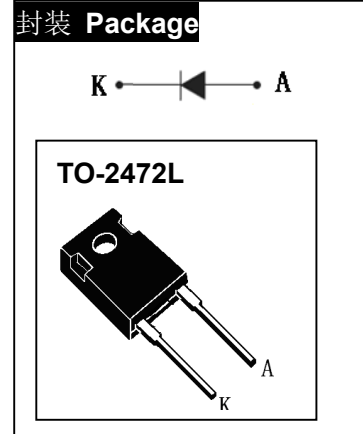


ADH30E120L

主要参数 MAIN CHARACTERISTICS

IF(AV)	30A
VR(V)	1200 V
Tj(max)	175°C
VF(typ)	2.7V
trr (max)	45ns



用途

- 吸收回路
- 开关电源
- UPS
- 高频开关器件并联二极管

APPLICATIONS

- Snubber diode
- Switch power supply
- UPS
- 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

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	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
ADH30E120L-GE-B	ADH30E120L-GE-BR	N/A	N/A	ADH30E120L	TO-2472L

绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向重复峰值电压 Max Repetitive peak reverse voltage	V_{RRM}	1200	V
正向平均整流电流 Average forward current	$I_{F(AV)}$	30	A
峰值单脉冲浪涌电流 Peak one Cycle Surge Forward Current(Non-Repetitive) t=8.3ms	I_{FSM}	210	A
雪崩耐量 Avalanche Energy (1A, 40mH)	E_{AVL}	20	mJ
结温 Junction Temperature	T_j	-55~+175	°C
储存温度 Storage temperature range	T_{STG}	-55~+175	°C

电特性 ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

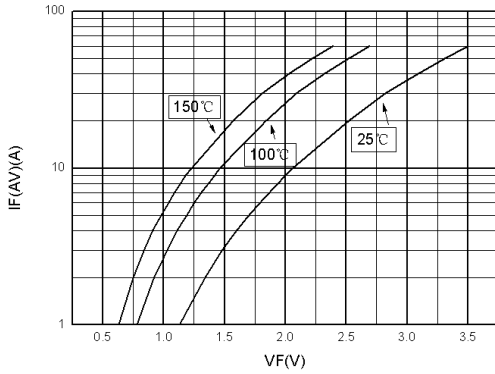
项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V_{RRM}	$I_R = 50\mu A$	1200			V
I_R	$T_j = 25^\circ C$			100	μA
	$T_j = 125^\circ C$			500	μA
V_F	$T_j = 25^\circ C$		2.7	3.3	V
	$T_j = 125^\circ C$			2.9	V
t_{rr}	$I_F = 1A, V_R = 30V, di_F/dt = -100A/\mu s$ $T_j = 25^\circ C$			45	ns
t_{rr}	$I_F = 30A, V_R = 200V, di_F/dt = -200A/\mu s$		43		ns
Q_{rr}	$T_j = 25^\circ C$		79		nc
I_{RRM}			3.3		A
t_{rr}	$I_F = 30A, V_R = 200V, di_F/dt = -200A/\mu s$		207		ns
Q_{rr}	$T_j = 125^\circ C$		583		nc
I_{RRM}			6.2		A

热特性 THERMAL CHARACTERISTICS

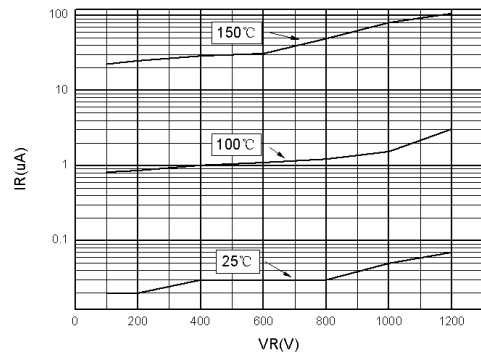
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	$R_{th(j-c)}$		0.55	°C/W

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

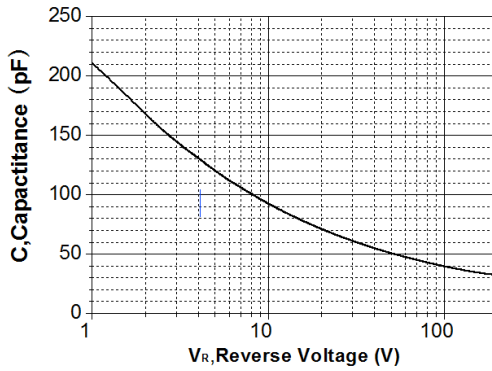
I_F vs V_F



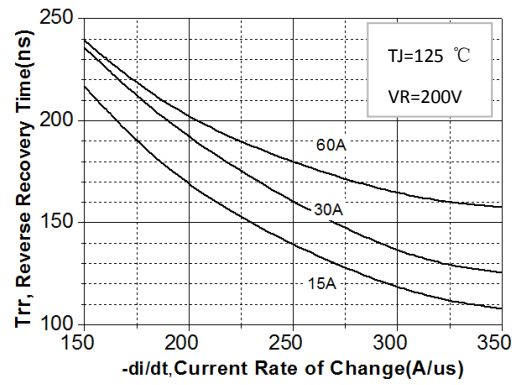
I_R vs V_R



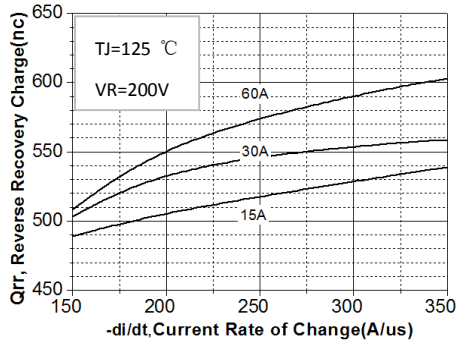
C_T vs V_R



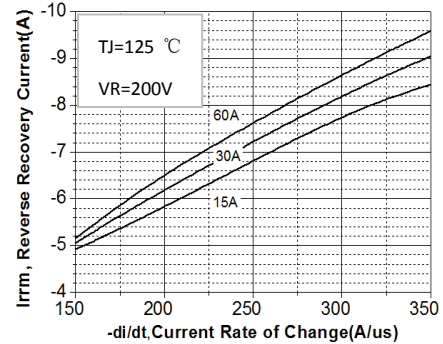
t_{rr} vs di_F/dt



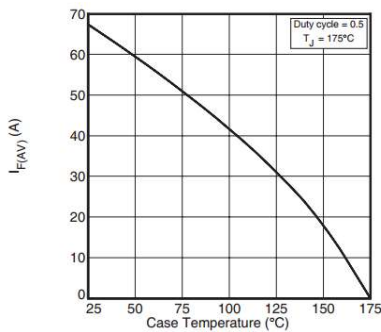
Q_{rr} vs di_F/dt



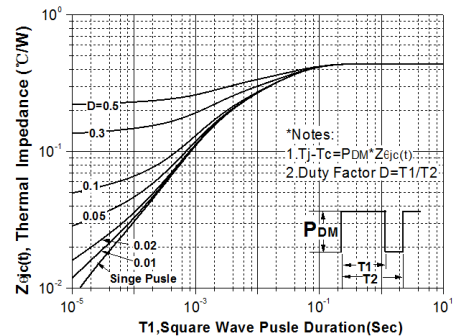
I_{RRM} vs di_F/dt



I_F vs T_C



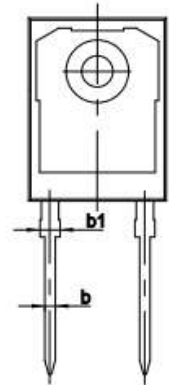
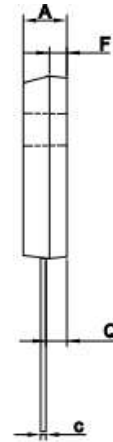
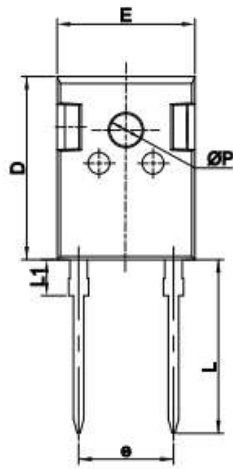
Z_{QJC} vs $t_p(s)$



TO-2472L

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
ΦP	3.40	3.80
Q	2.26	2.56



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