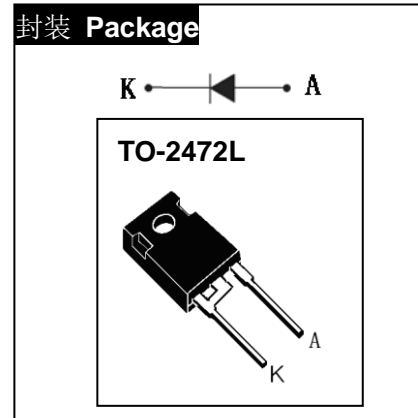


ADH30E60L

主要参数 MAIN CHARACTERISTICS

IF(AV)	30A
VRRM	600 V
Tj(max)	150°C
VF (typ)	2.0V
trr (max)	35ns



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

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		
ADH30E60L-GE-B	ADH30E60L-GE-BR	ADH30E60L	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 Repetitive peak reverse voltage	V _{RRM}	600	V
正向平均整流电流 Average forward current T _C =110°C	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}	300	A
雪崩耐量 Avalanche Energy (1A, 40mH)	E _{AVL}	20	mJ
结温 Junction Temperature	T _j	-55~+150	°C
储存温度 Storage temperature range	T _{STG}	-55~+150	°C

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

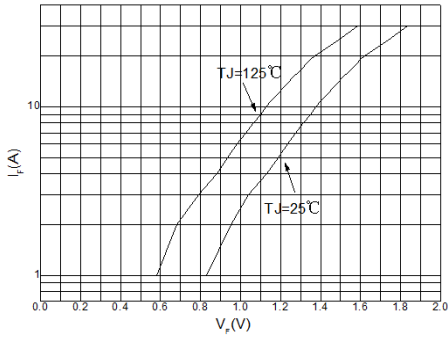
项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V _{RRM}	I _R = 50μA	600			V
I _R	T _j = 25°C			25	μA
	T _j = 125°C			500	μA
V _F	T _j = 25°C		2.0	2.5	V
	T _j = 125°C			2.1	V
trr	I _F = 1A, V _R = 30V, di _F /dt = -100A/μs T _C = 25°C		26	35	ns
trr	I _F = 30A, V _R = 200V, di _F /dt = -200A/μs T _C = 25°C		30		ns
Q _{rr}			23		nc
I _{RRM}			1.5		A
trr	I _F = 30A, V _R = 200V, di _F /dt = -200A/μs T _C = 125°C		86		ns
Q _{rr}			160		nc
I _{RRM}			3.7		A
CT	V _R = 200V		33		pF

热特性 THERMAL CHARACTERISTICS

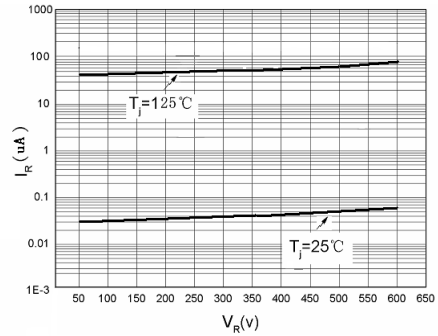
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	R _{th(j-c)}		0.8	°C/W

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

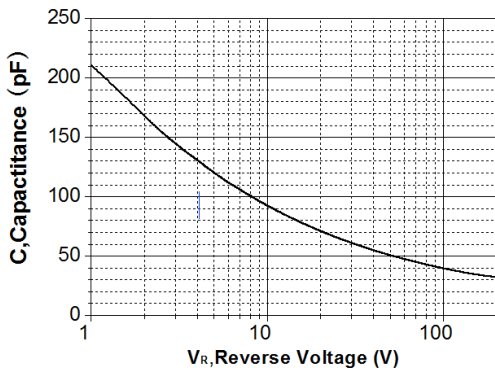
IF vs VF



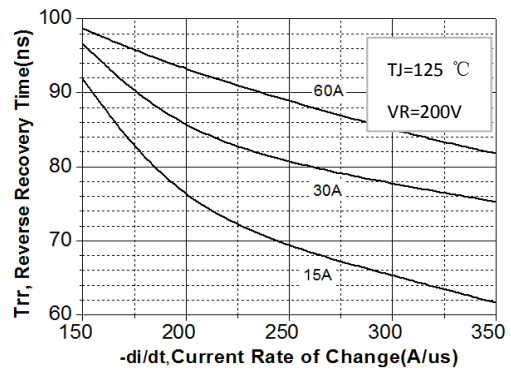
IR vs VR



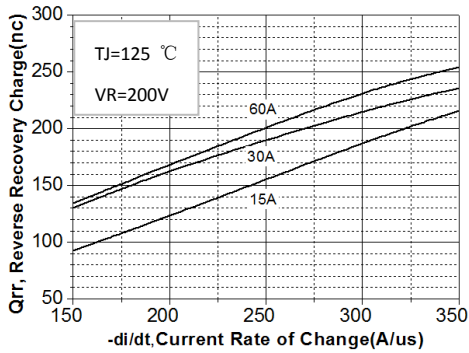
CT vs VR



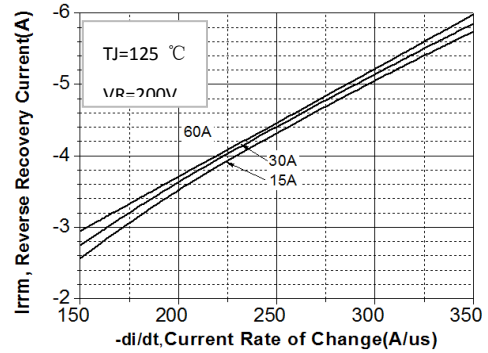
Trr vs diF/dt



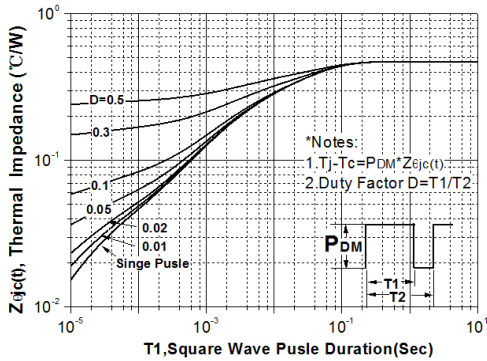
Qrr vs diF/dt



IRRM vs diF/dt

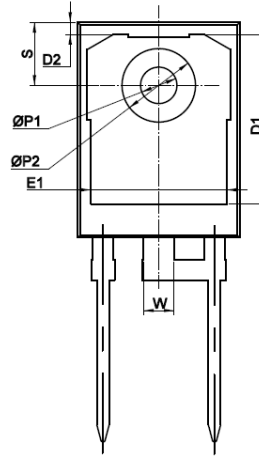
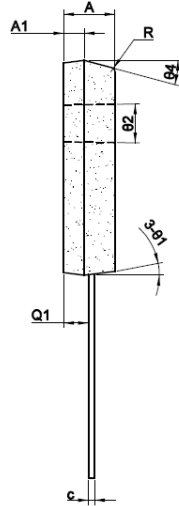
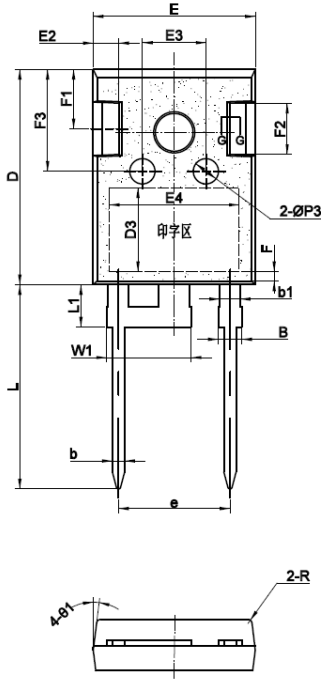


ZQJC vs tp(s)



TO-2472L

单位 Unit : mm



SYMBOL	MM		
	MIN	NOM	MAX
*A	4.90	5.00	5.10
A1	1.90	2.00	2.10
*B	2.00	2.10	2.20
*b	1.15	1.20	1.25
b1	1.95	2.00	2.05
*c	0.55	0.60	0.65
*D	20.90	21.00	21.10
D1	16.45	16.55	16.65
D2	1.07	1.17	1.27
D3	8.15	8.20	8.25
*e	10.83	10.88	10.93
*E	15.70	15.80	15.90
E1	13.16	13.26	13.36
E2	2.40	2.50	2.60
E3	6.10	6.20	6.30
E4	12.70	12.80	12.90
F1	5.70	5.80	5.90
F2	4.90	5.00	5.10
F3	9.90	10.00	10.10
F4	0.75	0.85	0.95
*L	19.72	19.92	20.12
*L1	4.03	4.13	4.23
θ1	5°	7°	9°
θ2	1°	2°	3°
θ3	13°	15°	17°
*ØP1	3.50	3.60	3.70
ØP2	7.09	7.19	7.29
ØP3	2.40	2.50	2.60
*Q1	2.31	2.41	2.51
S	6.05	6.15	6.25
R	0.30	0.40	0.50
W	2.95	3.00	3.05
W1	8.14	8.24	8.34

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