



CD2535T1B

主要参数 MAIN CHARACTERISTICS

$I_{T(RMS)}$	40A
V_{DRM}/V_{RRM}	1200V
I_{GT}	10-35mA

用途

- 半交流开关
- 相位控制

APPLICATIONS

- Half AC switching
- Phase control

产品特性

- 玻璃钝化芯片，高可靠性和一致性
- 低通态电流和高浪涌电流能力
- 环保 RoHS 产品

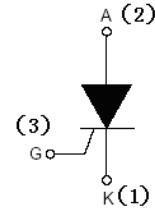
FEATURES

- Glass-passivated mesa chip for reliability and uniform
- Low on-state voltage and High I_{TSM}
- RoHS products

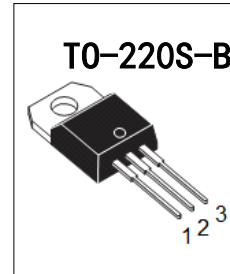
订货信息 ORDER MESSAGE

订货型号 Order codes				印 记 Marking	封 装 Package
有卤-条管	无卤-条管	有卤-编带	无卤-编带		
Halogen-Tube	halogen-Free-Tube	Halogen-Reel	Halogen-Free-Reel		
CD2535T1B-CD-B	CD2535T1B -CD-BR	N/A	N/A	CD2535T1B	TO-220S-B
CD2535T1B-CB-B	CD2535T1B-CB-BR	N/A	N/A	CD2535T1B	TO-220S

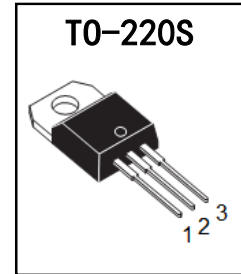
封装 Package



序号 Pin	引线名称 Description
1	阴极 K
2	阳极 A
3	门极 G



Non-insulated



Insulated



**绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C)**

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
断态重复峰值电压 Repetitive peak off-state voltage	V _{DRM}	1200	V
反向重复峰值电压 Repetitive peak reverse voltage	V _{RRM}	1200	V
通态平均电流 Average on-state current (half sine wave)	I _{T(AV)}	25	A
通态方均根电流 On-state RMS current (all conduction angles)	I _{T(RMS)}	40	A
非重复浪涌峰值通态电流 Non- repetitive surge peak on-state current (half sine wave ,t=10ms)	I _{TSM}	350	A
I ² t for fusing (t=10ms)	I ² t	450	A ² s
通态电流临界上升率 Repetitive rate of rise of on-state current after triggering	di/dt	150	A/us
门极峰值电流 Peak gate current	I _{GM}	1.5	A
门极峰值电压 Peak gate voltage	V _{GM}	10	V
门极峰值功率 Peak gate power	P _{GM}	5	W
门极平均功率 Average gate power (over any 20ms period)	P _{G(AV)}	2	W
存储温度 Storage temperature	T _{stg}	-40~150	°C
操作结温 Operation junction temperature	T _J	125	°C

**静态特性 STATIC CHARACTERISTICS (T_c=25°C unless otherwise stated)**

项 目 Parameter	符号 Symbol	测试条件 Tests conditions	最小 min	典型 typ	最大 max	单位 Unit
断态峰值重复电流 Peak Repetitive Blocking Current	I _{DRM}	V _{DM} = V _{DRM(MAX)} , T _j =125°C	-	-	4.0	mA
反向峰值重复电流 Peak Repetitive Reverse Current	I _{RRM}	V _{RM} = V _{RRM(MAX)} , T _j =125°C	-	-	4.0	mA
峰值通态电压 Peak on-state voltage	V _{TM}	I _{TM} =80A	-	-	1.60	V
门极触发电流 Gate trigger current	I _{GT}	V _{DM} =12V, I _T =0.1A	10	-	35	mA
门极触发电压 Gate trigger voltage	V _{GT}	V _{DM} =12V, I _T =0.1A	-	0.95	1.5	V
维持电流 Holding current	I _H	V _{DM} =12V, I _{GT} =0.5A	-	-	90	mA
擎住电流 Latching current	I _L	V _{DM} =12V, I _{GT} =0.1A	-	-	150	mA

动态特性 DYNAMIC CHARACTERISTICS (T_c=25°C unless otherwise stated)

项 目 Parameter	符号 Symbol	测试条件 Tests conditions	最小 min	典型 typ	最大 max	单位 Unit
通态电流临界上升率 Repetitive rate of rise of on-state current after triggering	di/dt			150		A/us
断态临界电压上升率 Critical rate of rise of off- state voltage	dV/dt	V _{DM} =67% V _{DRM(MAX)} , T _j =125°C	1000	-	-	V/μs

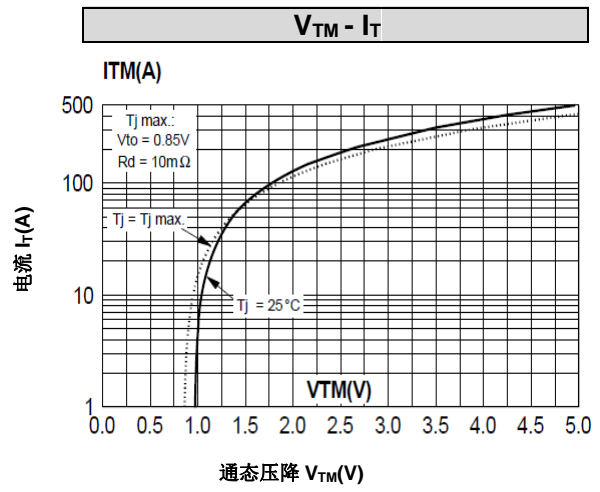
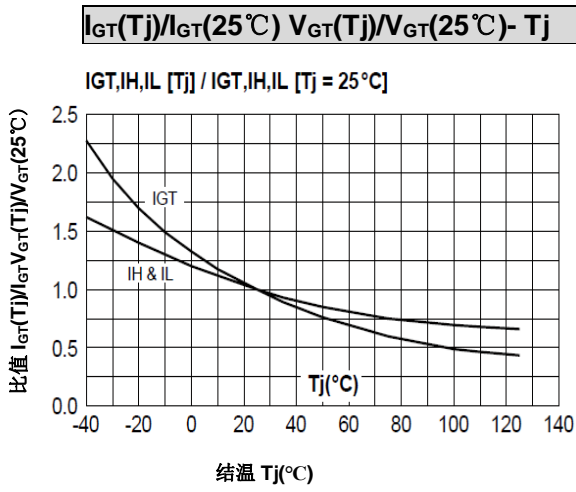
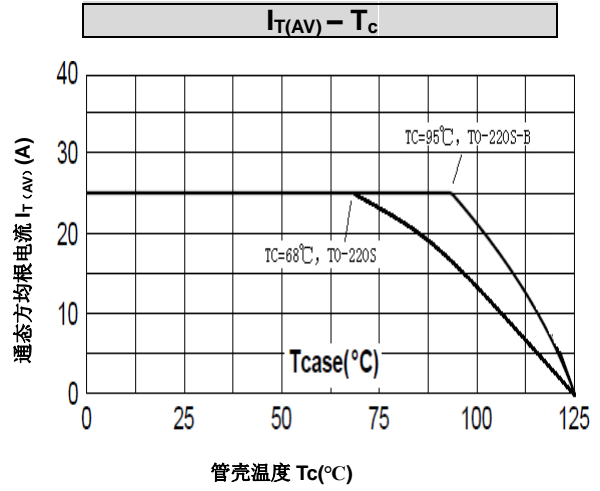
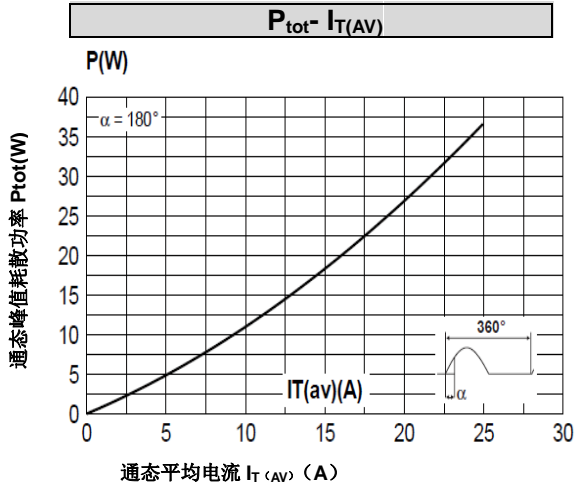
热特性 THERMAL CHARACTERISTIC

项 目 Parameter	符 号 Symbol	值 value	单位 Unit
结到管壳的热阻 Thermal resistance junction to case TO-220S-B	R _{th(j-c)}	0.78 max	°C/W
结到管壳的热阻 Thermal resistance junction to case TO-220S	R _{th(j-c)}	1.5	°C/W

电绝缘特性 ELECTRICAL ISOLATION

项目 Parameter	符号 Symbol	条件 Condition	数值 Value	单位 Unit
绝缘电压 Isolation voltage	V _{ISOL}	1 minute, leads to mounting tab TO-220S	2000	V

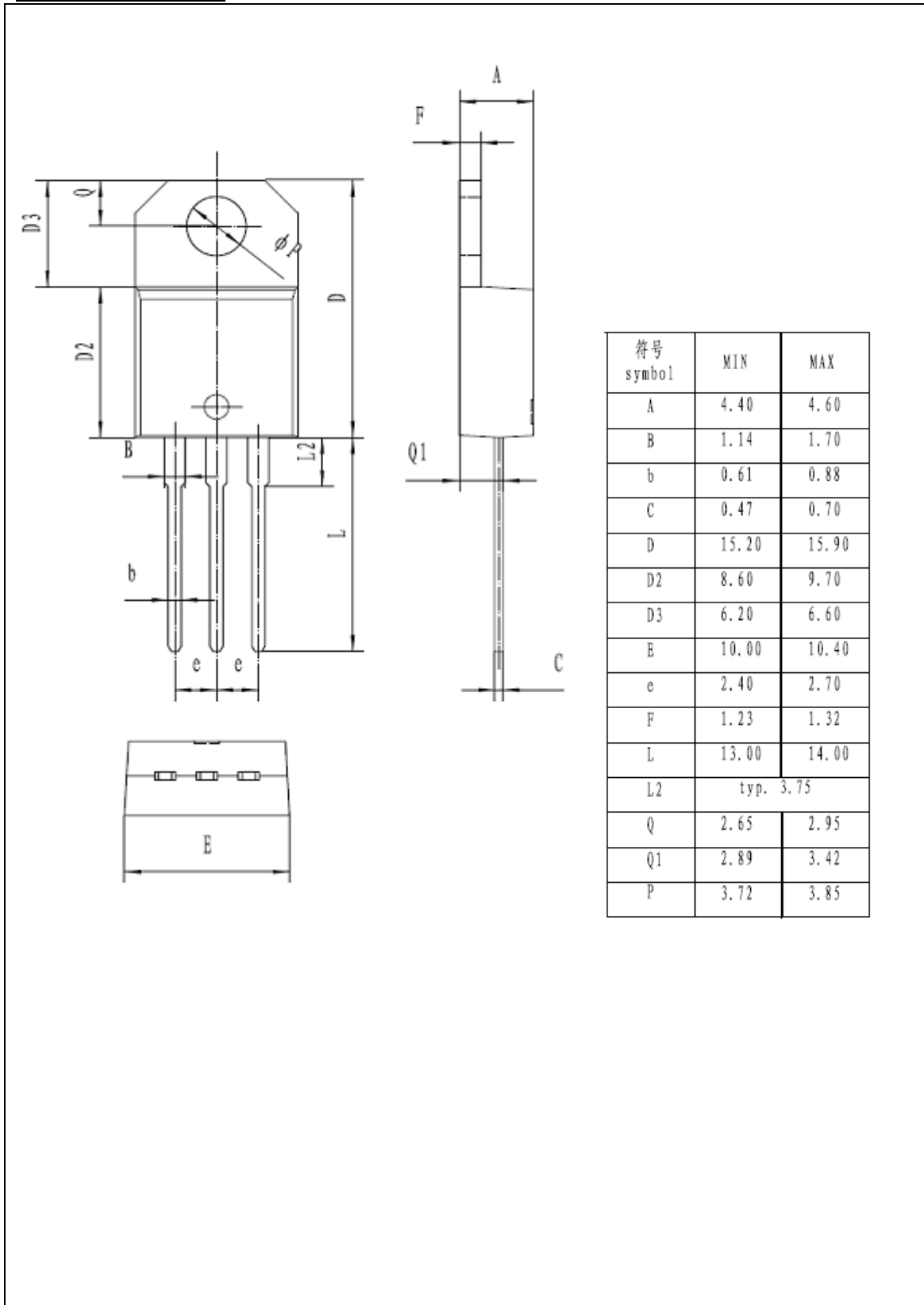
特征曲线 ELECTRICAL CHARACTERISTICS (curves)



外形尺寸 PACKAGE MECHANICAL DATA

TO-220S-B/TO-220S

单位 Unit : mm



**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.
4. Jilin Sino-microelectronics co., Ltd reserves the right to make changes in this. specification sheet and is subject to change without prior notice.

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