

# 新一代TO-247-4L车规IGBT单管——800V PTC加热器的“硬核新搭档”



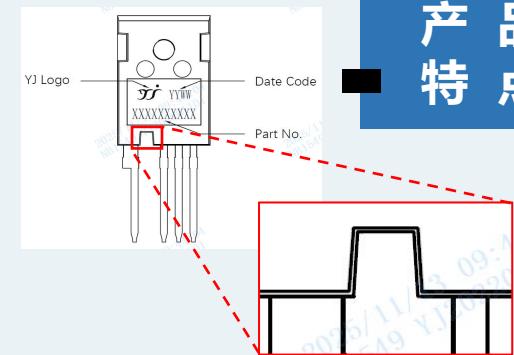
## 产品介绍

扬杰科技近日推出了新一代TO-247-4L封装1200V IGBT车规单管，产品采用新一代微沟槽工艺平台，极大的优化了器件的导通损耗，产品参数一致性好，可靠性优良。此外，为了适用于高压汽车平台的PTC应用，本产品对CE极之间的爬电距离做了优化。

1. 精细微沟槽工艺平台，极具性价比的芯片方案；
2. 电压等级为1200V，电流等级为40A@ $T_c=100^\circ\text{C}$ ；
3. 低导通损耗，适用于中低频应用领域；
4. 极强的短路能力；
5. CE极爬电距离优化，达到8mm以上；  
传统TO-247-3L器件CE极爬电距离约3mm，  
采用TO-247-4L封装后器件CE极爬电距离增大至8mm以上，  
大大提升了电动汽车高电压平台的适用性

Product Name	$V_{CES}$ (V)	$I_c$ (A)	$V_{GE(th)}$ (V)	$V_{CE(sat)}$ (V)	$VF$ (V)	$P_d$ (W)	$T_j$ ( $^\circ\text{C}$ )
DGZ40N120CTL1AQ	1200V	40A	5.8	1.65	2.40	320	-40~175

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PTC

■ **Automotive IGBT for 800V Voltage Platform PTC Heater of New Energy Vehicles****Product Introduction**

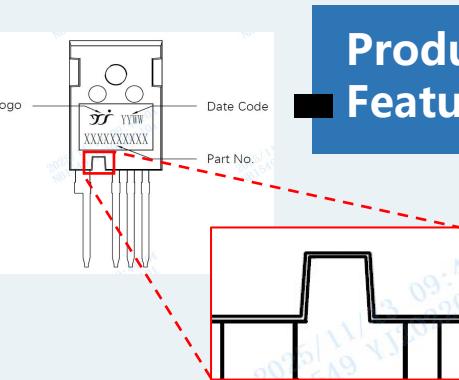
Yangjie Technology recently launched a new generation of To-247-4L packaged 1200V discrete IGBT for automotive applications. The product adopts a new generation of micro-trench process technology, greatly optimizing the device's conduction loss, with good parameter consistency and excellent reliability. In addition, to suit PTC applications on high-voltage automotive platforms, the creepage distance between the CE terminals of this product has been optimized.

**New Product Announcement**

1. Micro-trench process platform, a highly cost-effective chip solution;
2. Voltage rating of 1200V, current rating of 40A@ $T_c=100^\circ\text{C}$ ;
3. Low conduction loss, suitable for medium to low frequency applications;
4. Strong short-circuit capability;
5. Optimized CE creepage distance, reaching over 8mm; For traditional TO-247-3L devices, the CE creepage distance is about 3mm. After adopting the TO-247-4L package, the device's CE creepage distance increases to over 8mm, greatly enhancing the suitability for high-voltage platforms in electric vehicles.

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Please refer to the official website for more products



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**Applica  
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