

1.

1200V

40A @ $T_c = 100$

3.

4.

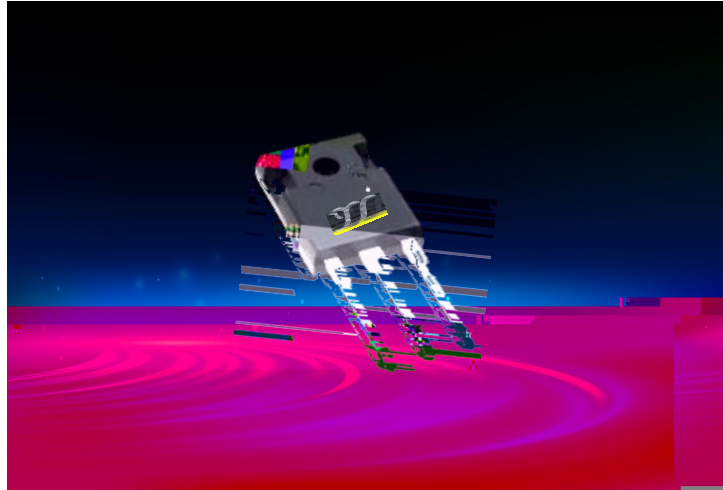
(20V

10us

)

NEW
PRODUCT

Automotive-grade IGBT for Air Conditioning Compressor Controllers in New Energy Vehicles

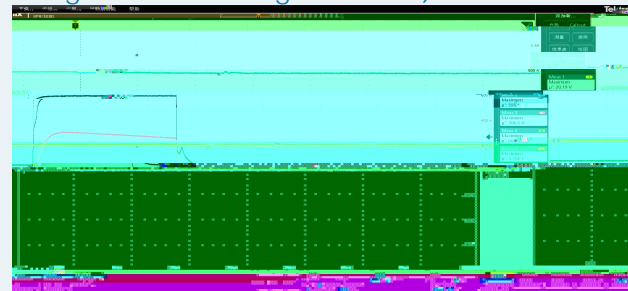


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Yangjie Technology recently launched a new generation of To-247-3L packaged 1200V automotive-grade discrete IGBT. The product adopts a new generation of micro-trench process platform, greatly optimizing the device's conduction loss, featuring strong short-circuit capability, good parameter consistency, and excellent reliability. It is suitable for various medium and low frequency applications such as compressor controllers.

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
(The device still ensures a short-circuit withstand time of over 10 μs even under a high drive voltage of 20V)



As shown in the left figure, this is category one of short-circuit measured waveform of the device under a 20V drive voltage

Product Name	V_{CES} (V)	I_c (A)	$V_{GE(th)}$ (V)	$V_{CE(sat)}$ (V)	V_F (V)	P_d (W)	T_j
DGW40N120CTL1ACQ	1200V	40A	5.8	1.65	2.1	320	-40~175

Product
Features



Air conditioning
compressor controller

Applica
-tion