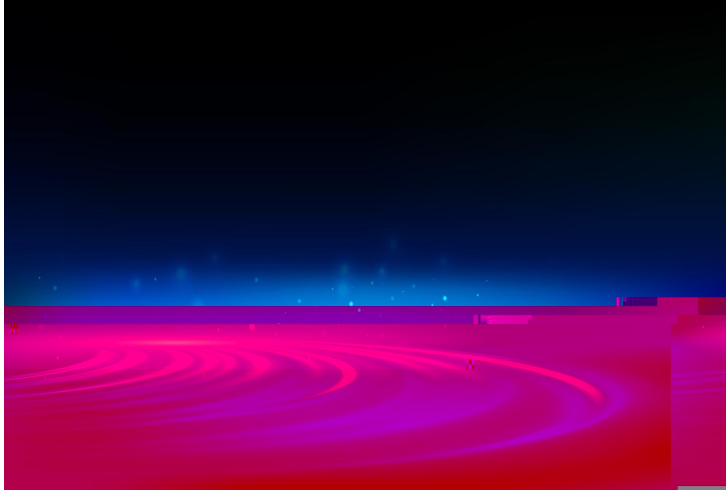




1.

1200V

40A@Tc=100

3.

4.

(

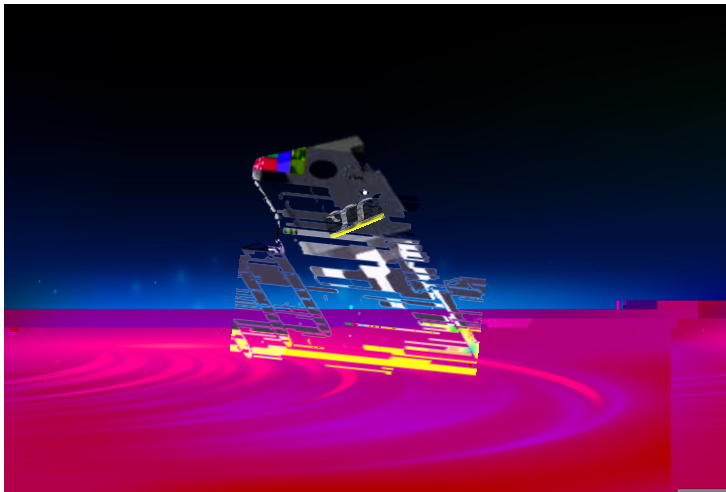
20V

10us

)

NEW
PRODUCT

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

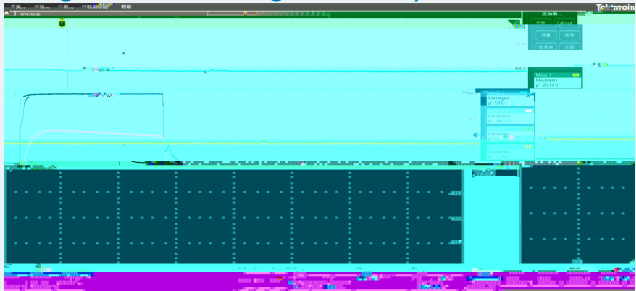


TO-247-3L 1200V automotive-grade discrete IGBT

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@Tc=100℃ ;
- 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