



Trans IGBT Chip N-CH 600V 48A 300mW 3-Pin(3+Tab) TO-247

Manufacturer: <u>Littelfuse Inc</u>

Package/Case: TO-247

Product Type: Thyristors

Lifecycle: Active



Images are for reference only

Inquiry

General Description

GenX3TM IGBTs are PT (Punch Through) manufactured using our robust HDMOS IGBT process. 300V GenX3TM IGBTs offer switching capabilities up to 150 kHz, with currents ranging from 42A to 120A. The combination of high switching speeds and low conduction losses offers power designers a new high value option for switching applications. These UIS rated devices are rugged and robust making them comparable to most rugged power MOSFETs.600V GenX3TM are optimized for high current applications requiring soft-switching frequencies upwards of 200 kHz and hard-switching frequencies of 40 kHz. These devices utilize our proven Punch-Through (PT) technology providing higher surge current capabilities, lower saturation voltage, and lower energy losses offering designers a new viable option for switching applications at the 600V range.1200V GenX3TM utilize our advanced Punch-Through (PT) technology to provide lower saturation voltages, lower switching losses, and higher surge current capabilities. This growing product line aimed at the high voltage power conversion market. To accommodate optimum part selection, designers have a choice in selecting between three sub-classes denoted A3, B3, and C3. These classifications offer greater system design flexibility and the opportunity for designers to reach the best compromise between critical requirements such as switching frequency, efficiency, and cost.

Key Features Application

High current handling capability Power inverters

International standard packages

UPS

Optimized for low conduction & switching losses

Motor drives

Ultra fast anti-parallel diode (optional)

Avalanche rated SMPS

Square RBSOA PFC circuits

Low cost alternative to MOSFETs in the 300V range Battery chargers

Drive simplicity with MOS Gate turn-on
Welding machines

High frequency IGBT

Lamp ballast

In-rush current protection circuits

DC choppers

Induction heating

Solar system inverters

Power Factor Correction Circuit

Uninterrupted power supply

Switch Mode power supply

Motor controls (ACAC/DC Motors)

Capacitive discharge switch

Recommended For You

Littelfuse Inc Littelfuse Inc Littelfuse Inc

TO-247 PLUS247 TO-247

IXYN30N170CV1 IXBH16N170 IXGH60N60C2

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TO-247 MODULE TO-247

IXGP20N120A3 IXYR50N120C3D1 IXYH50N65C3D1

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TO-220 ISOPLUS247 TO-247

IXGP8N100 IXTQ460P2 IXGR48N60C3D1

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