

Trans IGBT Chip 1200V 50A 3-Pin(3+Tab) TO-247AD

Manufacturer:	Littelfuse Inc
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 Ultra fast anti-parallel diode (optional)	Motor drives
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

IXGH48N60C3D1	IXYX100N120C3	IXGH30N60B2D1
Littelfuse Inc	Littelfuse Inc	Littelfuse Inc
TO-247	PLUS247	TO-247
IXYN30N170CV1	IXBH16N170	IXGH60N60C2
Littelfuse Inc	Littelfuse Inc	Littelfuse Inc
Ν	TO-247	TO-247

IXGH48N60A3	IXGN320N60A3	IXGH60N60C3
Littelfuse Inc	Littelfuse Inc	Littelfuse Inc
TO-247	MODULE	TO-247
IXGP20N120A3	IXYR50N120C3D1	IXYH50N65C3D1
Littelfuse Inc	Littelfuse Inc	Littelfuse Inc
TO-220	ISOPLUS247	TO-247
IXGP8N100	IXTQ460P2	IXGR48N60C3D1
Littelfuse Inc	Littelfuse Inc	Littelfuse Inc

TO-247

TO-3P

AVAQ SEMICONDUCTOR CO., LIMITED

TO-220