



900V XPT™ IGBTs



For energy-efficient high-speed, hard-switching power conversion applications

Features:

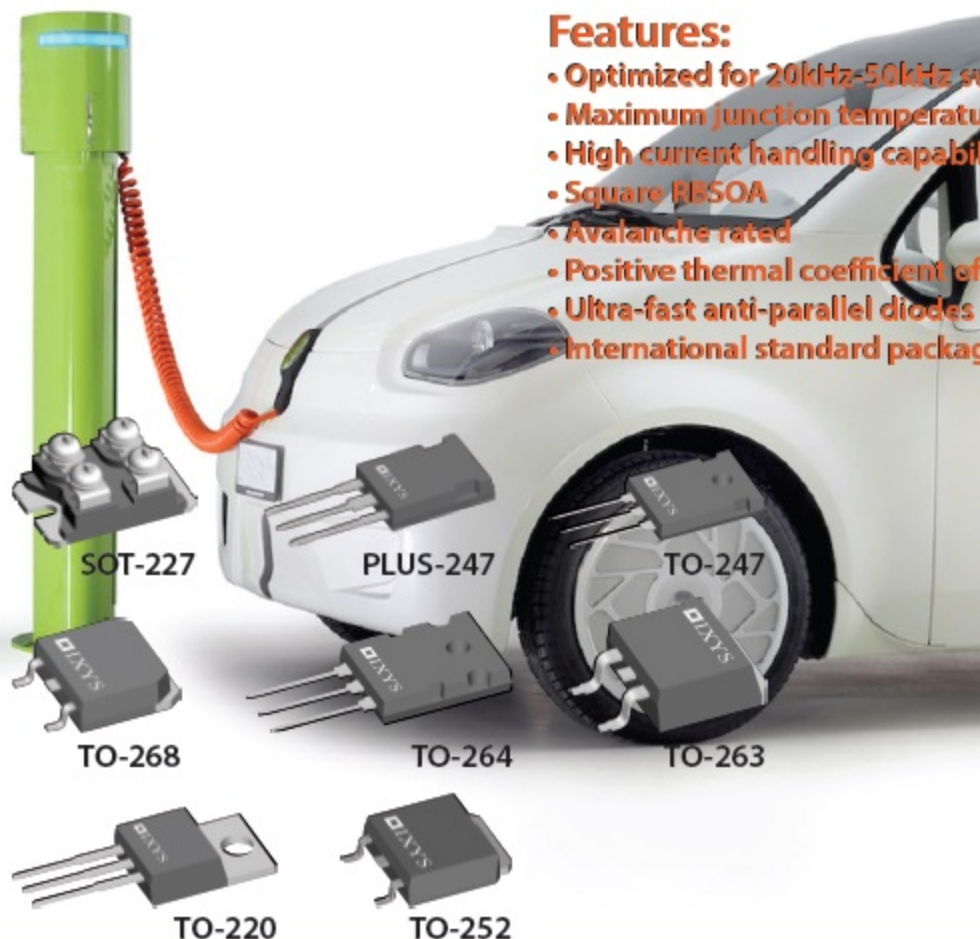
- Optimized for 20kHz-50kHz switching
- Maximum junction temperature $T_{jmax} = 175^{\circ}\text{C}$
- High current handling capability
- Square RBSOA
- Avalanche rated
- Positive thermal coefficient of $V_{CE(sat)}$
- Ultra-fast anti-parallel diodes
- International standard packages

Advantages:

- Hard-switching capability
- High power density
- Low gate drive requirements

Applications:

- Battery chargers
- E-Bikes and Hybrid Electric Vehicles
- High Frequency Power inverters
- Lamp ballasts
- Power Factor Correction (PFC) circuits
- Switched-mode power supplies
- Uninterruptible power supplies (UPS)
- Welding machines



Part Number	V_{CE} (V)	I_{CIS} $T_c=25^{\circ}\text{C}$ (A)	I_{C110} $T_c=110^{\circ}\text{C}$ (A)	$V_{CE(sat)}$ max $T_j=25^{\circ}\text{C}$ (V)	t_{ri} typ $T_j=125^{\circ}\text{C}$ (ns)	E_{off} typ $T_j=125^{\circ}\text{C}$ (mJ)	R_{thjc} max IGBT ($^{\circ}\text{C}/\text{W}$)	Configuration	Package Style
IXYA8N90C3D1	900	20	8	2.5	163	0.22	1.2	Copacked (HiPerFRED™)	TO-263
IXYP8N90C3	900	20	8	2.5	163	0.22	1.2	Single	TO-220
IXYP8N90C3D1	900	20	8	2.5	163	0.22	1.2	Copacked (HiPerFRED™)	TO-220
IXYY8N90C3	900	20	8	2.5	163	0.22	1.2	Single	TO-252
IXYH24N90C3	900	44	24	2.7	130	0.55	0.62	Single	TO-247
IXYH24N90C3D1	900	44	24 (TC=90°C)	2.7	130	0.55	0.62	Copacked (HiPerFRED™)	TO-247
IXYH40N90C3D1	900	90	40	2.5	150	1.2	0.25	Copacked (HiPerFRED™)	TO-247
IXYH40N90C3	900	105	40	2.5	150	1.2	0.25	Single	TO-247
IXYN80N90C3H1	900	115	70 (TC=90°C)	2.7	98 (TJ=150°C)	2.5 (TJ=150°C)	0.25	Copacked (Sonic-FRD™)	SOT-227
IXYH60N90C3	900	140	60	2.7	165 (TJ=150°C)	2.15 (TJ=150°C)	0.2	Single	TO-247
IXYH80N90C3	900	165	80	2.7	98 (TJ=150°C)	2.5 (TJ=150°C)	0.18	Single	TO-247
IXYT80N90C3	900	165	80	2.7	98 (TJ=150°C)	2.5 (TJ=150°C)	0.18	Single	TO-268
IXYK140N90C3	900	310	140	2.7	125 (TJ=150°C)	5 (TJ=150°C)	0.092	Single	TO-264
IXYX140N90C3	900	310	140	2.7	125 (TJ=150°C)	5 (TJ=150°C)	0.092	Single	PLUS247

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Efficiency Through Technology

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