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Discrete IGBT Nomenclature

IX	Y	T	30	N	65	C3	*	H1	HV	Example
IX										IXYS – LF Technology

		Technology Series
B		BiMOSFET™
G		NPT, PT IGBT
H		MOS-gated thyristor
V		NPT Trench IGBT
X		Short-circuit rated XPT™
Y		XPT™

		Package Type
A		TO-263
B		PLUS264™
C		ISOPLUS220™
E		ISOPLUS227™
F		ISOPLUS i4-Pak™
H		TO-247
I		TO-262
J		ISO247
K		TO-264
L		ISOPLUS i5-Pak™ (ISOPLUS264™)
M		TO-3
N		SOT227B
P		TO-220
Q		TO-3P
R		ISOPLUS247™
T		TO-268
V		PLUS220™
X		PLUS247™
Y		TO-252
Z		DE

		Current Rating (Examples) at High Temperature *
30		30 = 30 A
200		200 = 200 A
400		400 = 400 A

		Silicon Type
N		N = N-channel type

		Voltage Class (Examples)
65		65 = 650 V
120		120 = 1200 V
250		250 = 2500 V

		Switching Class
A		Low frequency (≤5 kHz) switching
B		Medium frequency (5 kHz - 20 kHz) switching
C		High frequency (≥20 kHz) switching
	3	Gen.3 Die technology
	4	Gen.4 Die technology
	5	Gen.5 Die technology
	6	Gen.6 Die technology

		Optional*
A		Automotive qualified

		Copack Diode Type
C1		SiC diode
D1		FRED™ diode
H1		SONIC-FRD™ diode
V1		Other Si diode

		Suffix
M		Overmolded package
HV		High-voltage package

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Discrete IGBT Nomenclature

I	X	A	20	IF	1200	PZ	Example
I							IGBT

Technology Series		
X		XPT™
Y		XPT Trench
T		Trench IGBT

Chip Generation		
A		XPT
E		Gen.5 Medium frequency (5 kHz – 20 kHz) switching
F		Gen.4 High frequency (≥20 kHz) switching

Current Rating (Examples) at High Temperature *		
20		20 A
200		200 A
400		400 A

Configuration		
I		Single
R		Reverse blocking
IF		Co-Pack diode
RG		Boost configuration
PG		Half-bridge with free wheeling and desat diode configuration
PF		Half-bridge with free wheeling diode configuration

Voltage Class (Examples)		
600		600 = 600 V
1200		1200 = 1200 V
2500		2500 = 2500 V

Package Type	
HB	TO-247AD (3)
HF	PLUS247™ (3)
HJ	ISOPLUS247™ (3)
HR	ISO247™ (3)
LB	SMPD-B
NA	SOT-227B (minibloc)
PB	TO-220AB (3)
PJ	ISOPLUS220™ AB (3)
PZ	TO-263AB (D2Pak) (2HV)
TC	TO-268AA (D3Pak) (2)
UC	TO-252AA (DPak)

Note

* Old technologies are rated at room temperature.