

IGBT

- ♦ UTC provides high-performance IGBT components for whitegoods, inverters, pumps, heating devices, solar devices, power circuit, and ignition applications

□ UTC IGBT nomenclature

UTG: Trench field-stop

UPG / UPGE: Planar type

UGV: Ignition IGBT

Current rating

e.g. 75 → $I_C = 75A$

Voltage rating (x10)

e.g. 65 → $V_{CEO} = 650V$

Switching speed

H: high-speed 10~60kHz

L: low-speed 5~40kHz

UTG 75 N 65 H N S 1

N-ch

t_{sc} (short-circuit) rating

N: normal

S: 3μs

L: 8μs

UTC version code

Internal free-wheeling diode

S: fast-recovery, $I_F = \text{rated } I_C$

D: fast-recovery, $I_F = \frac{1}{2} \text{ rated } I_C$

K: standard-recovery, $I_F = \text{rated } I_C$

J: standard-recovery, $I_F = \frac{1}{2} \text{ rated } I_C$

R: On-chip integrated (RC-IGBT)

C: SiC diode embedded

□ Trench structure field-stop IGBT

330V (PDP app.)	600 / 650V IGBT	1200V↑ IGBT	Standalone IGBT
UPGE80N33W	UTG6N60-S	UTG16N65-S	UTG12N120-S
UPGE85N33	UTG60N60	UTG30N65-S	UTG50N120-G2
UPGE120N33	UTG4N65-S	UTG70N65-S	UTG80N120-S
UPGE145N33	UTG8N65-S	UTG80N65-S	UTG30N135-G2
			UTG75N65ND-S
			UTG80N65ND-S
			UTG50N120ND-S
			UTG30N135ND-S

□ Ignition IGBT (380~450V, resistor internally biased)

Part Number	BVCES	IC	Package
UG15N41	380 V	15 A	TO-252 TO-263 TO-220
UGV20N40	440 V	20 A	TO-252 TO-262 TO-263 TO-220 TO-220F1 TO-220F2
UGV3040	400 V	21 A	TO-251 TO-252 TO-262 TO-263 TO-220 TO-220F

Note: Please refer to UTC catalog for complete portfolio.

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