

TRENCHSTOP™ Series

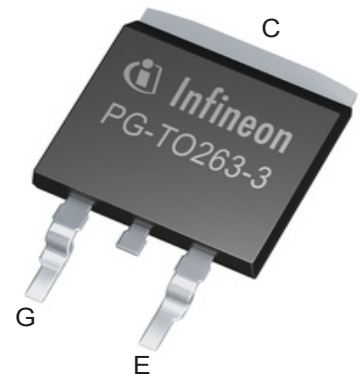
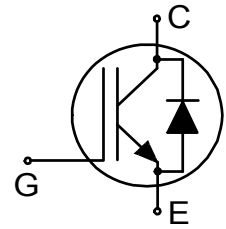
Low Loss DuoPack: IGBT in TRENCHSTOP™ and Fieldstop technology with soft, fast recovery anti-parallel diode

Features:

- Automotive AEC Q101 qualified
- Designed for DC/AC converters for Automotive Application
- Very low $V_{CE(sat)}$ 1.5V (typ.)
- Maximum Junction Temperature 150°C
- Dynamically stress tested
- Short circuit withstand time 5 μ s
- Positive temperature coefficient in $V_{CE(sat)}$
- Low EMI
- Low Gate Charge
- Green Package
- TRENCHSTOP™ and Fieldstop technology for 600V applications offers:
 - very tight parameter distribution
 - high ruggedness, temperature stable behavior
 - very high switching speed

Applications:

- Main inverter
- Climate compressor
- PTC heater
- Motor drives



Key Performance and Package Parameters

| Type | V_{CE} | I_C | $V_{CE(sat)}$, $T_{vj}=25^\circ\text{C}$ | T_{vjmax} | Marking | Package |
|-------------|----------|-------|---|-------------|---------|------------|
| AIKB20N60CT | 600V | 20A | 1.5V | 150°C | AK20DCT | PG-TO263-3 |



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