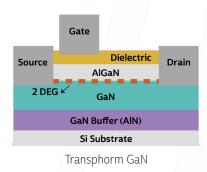
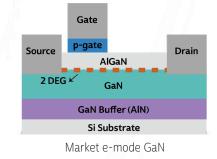
## Transphorm GaN vs. e-mode.

## Not all GaN is alike.

Transphorm's GaN delivers higher quality and reliablity (Q+R) than today's available e-mode GaN.





Cascode (Transphorm)*	e-mode (market)*
Extended JEDEC, AEC-Q101, lifetime testing	Not available
650 V (qualified), 1200 V (measured)	500 V and 600 V (measured)
800 V	750 V
10 V	1 V
4.0 V (typical)	1.7 V (typical)
No	Yes
Yes	Yes
2.2 V to 2.6 V	6 V to 9 V (defined by gate drive)
> 3x higher than e-mode	Reduced channel and gate charge
Up to two TO-XXX devices	More than two devices possible
Industry standard	Minimal increase with reduced Q+R
Industry standard	Smaller with reduced Q+R
50°C at 1500 W 83°C at 2526 W	80°C at 1500 W
	Extended JEDEC, AEC-Q101, lifetime testing 650 V (qualified), 1200 V (measured) 800 V 10 V 4.0 V (typical) No Yes 2.2 V to 2.6 V > 3x higher than e-mode Up to two TO-XXX devices Industry standard Industry standard 50°C at 1500 W

