

Featured Products



New 1,200V IGBTs - successor to our popular 650V series

AEC-Q101 Qualified 1,200V Low Conduction Loss IGBTs

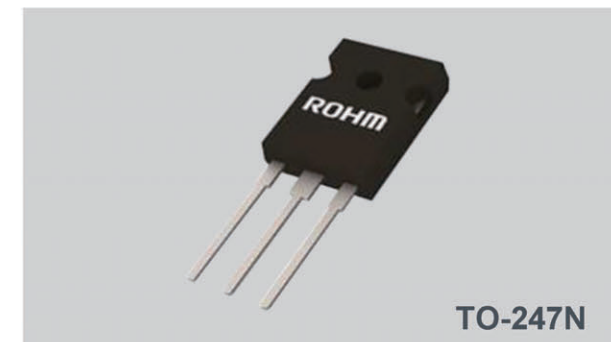
RGS series

Class-leading* low conduction loss $V_{CE(sat)}=1.70V$ (at 1,200V)

11-model lineup comprised of 650V/1,200V products

Qualified under the AEC-Q101 reliability standard for automotive electronic components

10μsec short-circuit tolerance ($T_j=25^{\circ}C$) *650V products: 8μsec

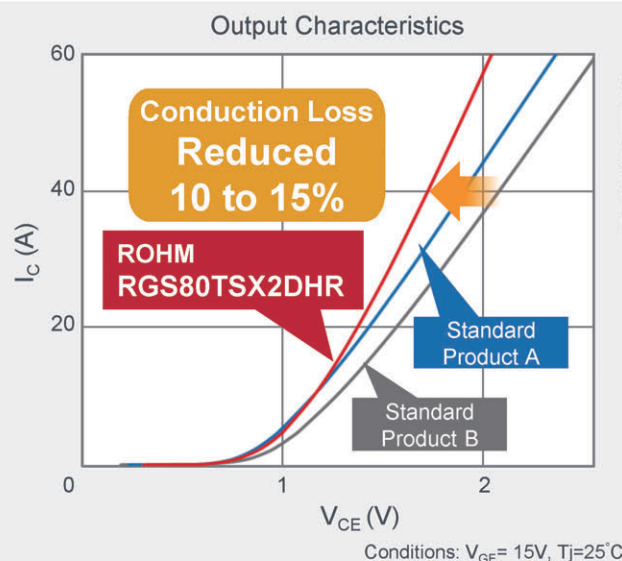


TO-247N

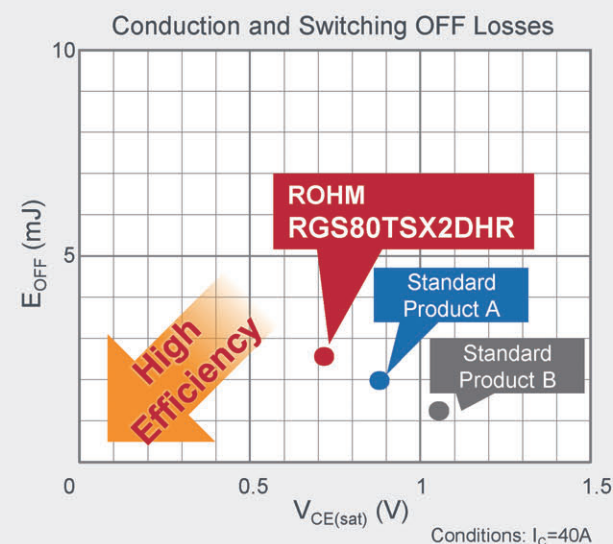
*ROHM December 2019 study

Note: Package indicates JEDEC code.

■ Output Characteristics and Conduction Loss

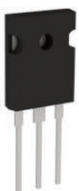


Class-leading* low conduction loss suppresses heat generation and contributes to greater application miniaturization.



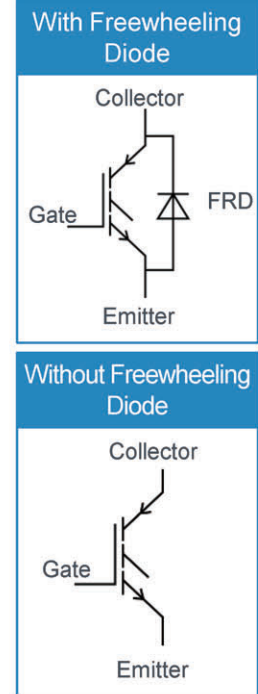
The RGS series was developed with an emphasis on low conduction loss. This enables greater power savings in applications such as PTC heaters and electric compressors.

■ Field Stop Trench IGBTs: RGS series

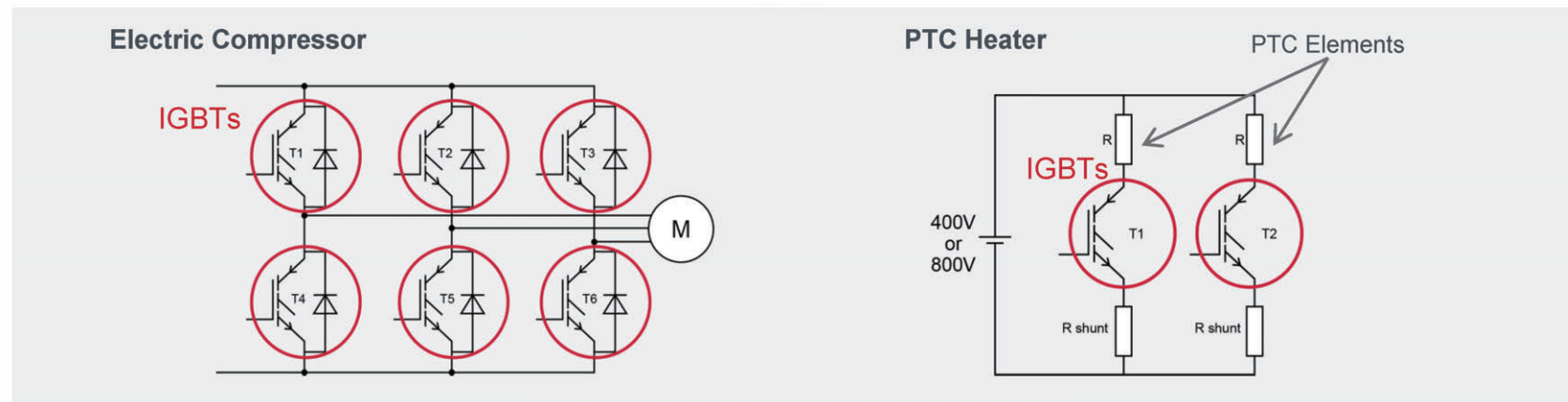
Part No.	V _{CES} (V)	Collector Current I _C @ 100°C(A)	Conduction Loss V _{CE(sat)} Typ(V)	Built-In Free wheeling Diode	Package	AEC-Q101 Qualified
☆ RGS30TSX2DHR	1,200	15	1.70	YES		YES
☆ RGS30TSX2HR				—		
New RGS50TSX2DHR		25	1.70	YES		
New RGS50TSX2HR				—		
New RGS80TSX2DHR		40	1.70	YES		
New RGS80TSX2HR				—		
RGS60TS65DHR	650	30	1.65	YES		
New RGS60TS65HR				—		
RGS80TS65DHR		40	1.65	YES		
New RGS80TS65HR				—		
RGS00TS65DHR		50	1.65	YES		
New RGS00TS65HR				—		
RGS00TS65EHR		75	1.70	YES		
☆ RGSX5TS65DHR				—		
☆ RGSX5TS65HR				—		
☆ RGSX5TS65EHR				YES		

Note: Package indicates JEDEC code.

☆: Under Development



■ Application Circuit Example



The content specified in this document is correct as of December 1st, 2019.

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