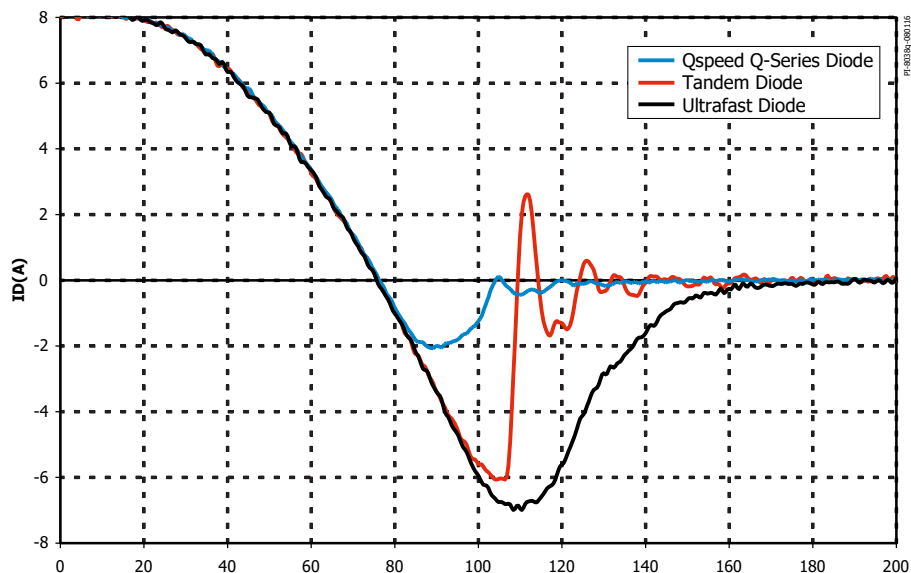


Qspeed™ Automotive Q-Series Diodes

- Low Q_{RR} , Low I_{RRM} , Low t_{RR} increases circuit efficiency
- High di_f/dt capable
- Enables extremely fast switching
- Soft recovery characteristic reduces EMI filter component size and count

200 V Qspeed Diode Meets AEC-Q101

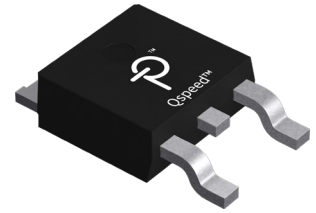


Applications

- Automotive audio
- Emergency power supplies
- Auxiliary converters

Output Power

Part Number	V_{RRM} (max)	$I_{F<AVG>}$ ($T_J = 150^\circ\text{C}$)	$V_{F<TYP>}$ ($T_J = 150^\circ\text{C}$)	Q_{RR} ($T_J = 25^\circ\text{C}$)	Q_{RR} ($T_J = 125^\circ\text{C}$)
LQ10N200CQ	600 V	5 A	0.8 V	15.6 nC	32.4 nC
LQ20N200CQ	600 V	10 A	0.85 V	20.0 nC	48.4 nC



Package: TO-252 DPAK

Design Support

Data Sheet	LQ10N200CQ data sheet (www.power.com/LQ10N200CQ-data-sheet)
Data Sheet	LQ20N200CQ data sheet (www.power.com/LQ20N200CQ-data-sheet)
Application Note	Qspeed High Temperature Reverse Bias (HTRB) Reliability Testing (AN-300) (www.power.com/an-300)
Application Note	Qspeed Reverse Recovery Charge, Current and Time (AN-301) (www.power.com/an-301)