

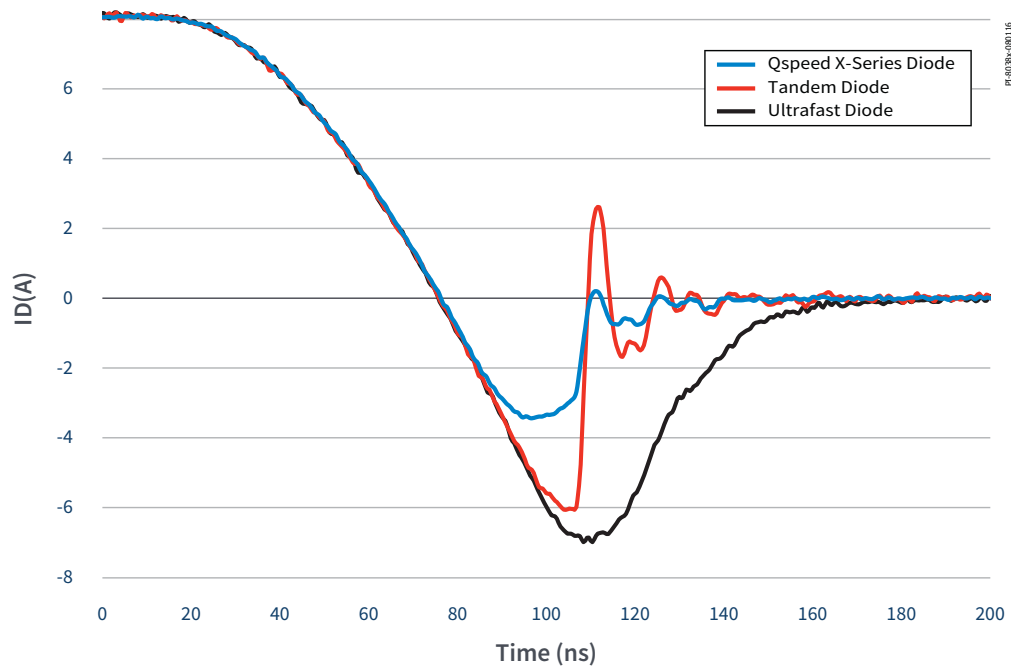
# Qspeed™ X-Series Diodes



## Key Features

- Lower switching losses than Ultrafast diodes
- Optimal for < 80 kHz applications
- Lowest forward voltage in the Qspeed family
- Eliminates need for snubber circuits
- Reduces EMI filter component size and count

## Lower $Q_{RR}$ and EMI than Ultrafast Diodes



## Applications

- Industrial
- Motor drives
- Computers
- Servers
- Telecom and datacom
- Audio

## Output Power

Part Number	$V_{RRM}$ (max)	$I_{F<AVG>}$ $T_J = 150^\circ\text{C}$	$V_{F<TYP>}$ $T_J = 150^\circ\text{C}$	$Q_{RR}$ $T_J = 25^\circ\text{C}$	$Q_{RR}$ $T_J = 125^\circ\text{C}$
LXA03D530	530	3	1.33	39 nc	75 nc
LXA04T600	600	4 A	2.1	21 nc	43 nc
LXA04B600	600	4 A	2.1	21 nc	43 nc
LXA08T600	600	8 A	2.1	21 nc	50 nc
LXA08B600	600	8 A	2.1	21 nc	50 nc
LXA08T600C	600	4 A	2.0	30 nc	71 nc
LXA12T600C	600	6 A	2.0	30 nc	71 nc
LXA16T600C	600	8 A	2.1	31 nc	82 nc
LXA15T600	600	15 A	2.1	31 nc	82 nc
LXA20T600	600	20 A	2.1	21 nc	50 nc



B: TO-263 (D2PAK) package  
T: TO-220 package

## Design Support

- Video [Introduction to Qspeed Diodes \(www.power.com/qspeed-x-series-video\)](http://www.power.com/qspeed-x-series-video)
- Application Note [Qspeed high temperature reverse bias reliability testing \(AN-300\) \(www.power.com/an-300\)](http://www.power.com/an-300)
- Application Note [Qspeed reverse recovery charge, current and time \(AN-301\) \(www.power.com/an-301\)](http://www.power.com/an-301)