

## Product Overview

### RHRP8120: 8A, 1200V, Hyperfast Diode

For complete documentation, see the data sheet.

The RHRP8120 is a hyperfast diode with soft recovery characteristics. It has the half recovery time of ultrafast diodes and is silicon nitride passivated ionimplanted epitaxial planar construction. These devices are intended to be used as freewheeling/ clamping diodes and diodes in a variety of switching power supplies and other power switching applications. Their low stored charge and hyperfast soft recovery minimize ringing and electrical noise in many power switching circuits reducing power loss in the switching transistors.

### Features

- Hyperfast recovery  $T_{rr} = 70\text{ns}$  (@  $I_F = 8\text{A}$ )
- Max Forward Voltage,  $V_F = 3.2\text{V}$  (@  $T_C = 25^\circ\text{C}$ )
- 1200V Reverse Voltage and High Reliability
- Avalanche Energy Rated
- RoHS compliant

### Applications

- Uninterruptible Power Supply

### Part Electrical Specifications

Product	Compliance	Status	Type	$I_{O(\text{rec})}$ Max (A)	$t_{rr}$ Max (ns)	$V_{RRM}$ Max (V)	$V_{FM}$ Max (V)	$I_{FSM}$ Max (A)	$I_R$ Max (mA)	Package Type
RHRP8120	Pb-free Halide free	Active	Single		70	1200			100	TO-220-2
RHRP8120-F102	Pb-free Halide free	Active								TO-220-2

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