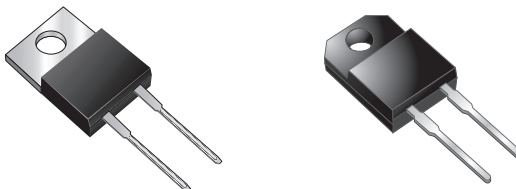


New 8 A, 600 V Ultrafast Rectifiers Offer 25 ns Reverse Recovery and 150 ns Forward Recovery Times



The new 8 A, 600 V UH8JT and UHF8JT single high voltage ultrafast rectifiers deliver a reverse recovery time of 25 ns. This improved switching performance combines with a forward recovery time of 150 ns under LEM test conditions ($I_F = 8$ A, $di/dt = 64$ A/ μ s, $V_F = 1.1 \times V_{F\max}$), and a low forward voltage drop rating of 1.85 V at 125 °C, to enable better thermal performance and better system efficiency.

Built using a planar chip junction technology, the UH8JT and UHF8JT will be used for a range of power supply applications, including high voltage continuous-current-mode power factor correction (CCM PFC) systems in consumer and computer products; high voltage output switchmode power supplies; secondary dc-to-dc rectification applications; and freewheeling diode applications.

The UH8JT (TO-220AC) and UHF8JT (ITO-220AC) feature a maximum junction temperature of 175 °C and are compliant with RoHS 2002/95/EC and WEEE 2002/96/EC.

PART NUMBER	DESCRIPTION	PACKAGE	V_F AT I_F , T_J
UH8JT	8 A, 600 V, 25 ns ultrafast recovery rectifier	TO-220AC	1.8 V at 8 A, 125 °C
UHF8JT		ITO-220AC	