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Ultra-Fast-Recovery Rectiflers

RUR-D1610, RUR-D1615, RUR-D1620

File Number 1383

Dual 16-A, High-Speed, High Efficiency Epitaxial Silicon Rectifiers

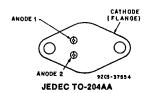
Features:

- Ultra fast recovery time (< 35 ns)
- Low forward voltage
- Low thermal resistance
- Planar design
- Wire-bonded construction

Applications:

- General purpose
- Power switching circuits to 100 kHz
- Full-wave rectification

TERMINAL DESIGNATIONS



The RCA RUR-D1610, RUR-D1615 and RUR-D1620• are low forward voltage drop, ultra fast-recovery rectifiers (trr < 35 ns). They use an ion-implanted planar epitaxial construction.

These devices are intended for use as output rectifiers and fly wheel diodes in a variety of high-frequency pulse-width modulated power supplies, amplifiers and switching regulators. Their low stored charge and attendant fast

reverse recovery behavior minimize electrical noise generation and, in many circuits, markedly reduce the turnon dissipation of the associated power switching transistors.

All are supplied in steel JEDEC TO-204AA hermetic packages.

•Formerly RCA Developmental Nos. TA9226A, B and C respectively.

MAXIMUM RATINGS, Absolute-Maximum Values, per Junction:

· Invi	RUR-D1610	RUR-D1615	RUR-D1620
Vam	100	150	200
TA = 25°C (No Heat Sink)		6	
TA = 25°C (With Heat Sink)=			
Tc = 125°C			
FSM (surge)			
8.3 ms, 1/2 cycle, non-repetitive		275	
hermal Resistance (J-C)		1.5	
hermal Resistance (J-C) Total		1.2	
Thermal Resistance (J-A)			
「stg, TJ		55 to 150 _	
L (Lead temperature during soldering)			
At distance > 1/8 in. (3.17 mm) from case for 10 s max		260	

■ Wakefield type 621 heat sink with convection cooling

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