

RECTIFIERS

Radiation Tolerant, 1 Amp-2 Amp

UR105-UR125
UR205-UR225

FEATURES

- Radiation Tolerant: to 10^{16} NVT
- Continuous Rating: to 2A
- Controlled Avalanche
- Surge Rating: to 25A
- Miniature Package

DESCRIPTION

These devices are particularly suited to applications where radiation is present. These units have unique ability to withstand high levels of neutron, gamma and electron radiation.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage	1 Amp Series	2 Amp Series
50V	UR105	UR205
100V	UR110	UR210
150V	UR115	UR215
200V	UR120	UR220
250V	UR125	UR225

	1 AMP SERIES	2 AMP SERIES
Maximum Average D.C. Output Current		
@ $T_A = 25^\circ\text{C}$	1A	2A
@ $T_A = 100^\circ\text{C}$	0.5A	1A
Non-Repetitive Sinusoidal		
Surge Current (8.3ms)	20A	25A
Operating Temperature Range	-195°C to +175°C	
Storage Temperature Range	-195°C to +200°C	
Thermal Resistance	See Lead Temperature Derating Curve	

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Type	PIV	Maximum Forward Voltage Drop	Maximum Leakage Current @ PIV		Maximum Radiation Tolerance
			25°C	100°C	
UR205 UR210 UR215 UR220 UR225	50V 100V 150V 200V 250V	1.0V @ 1A	3 μ A	50 μ A	10 ¹⁶ NVT 10 ¹⁶ 10 ¹⁵ 10 ¹⁴ 10 ¹⁴
UR105 UR110 UR115 UR120 UR125	50V 100V 150V 200V 250V	1.0V @ 0.5A	3 μ A	50 μ A	10 ¹⁶ 10 ¹⁶ 10 ¹⁵ 10 ¹⁴ 10 ¹⁴

MECHANICAL SPECIFICATIONS

UR105-UR125 UR205-UR225

BAND INDICATES CATHODE END

155 TYP. 3.9mm

700 MIN. 17.8mm

250 MAX. 6.35mm

1.625 MIN. 41.3mm

0.05 MAX. 2.16mm

0.30 ± .001 0.77mm ± .03

0.055 TYP. 1.4mm

Part Identification: White band indicates "UR." Part number printed on body.

Polarity: Denoted by white band.

Weight: 0.26 grams, typical.

BODY A

