

RECTIFIERS

Radiation Tolerant, 1 Amp-2 Amp

FEATURES

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

UR105-UR125

UR205-UR225

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

Maximum Average D.C. Output Current
1 AMP SERIES 2 AMP SERIES

@ $T_A = 25^\circ\text{C}$ 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 $+175^\circ\text{C}$

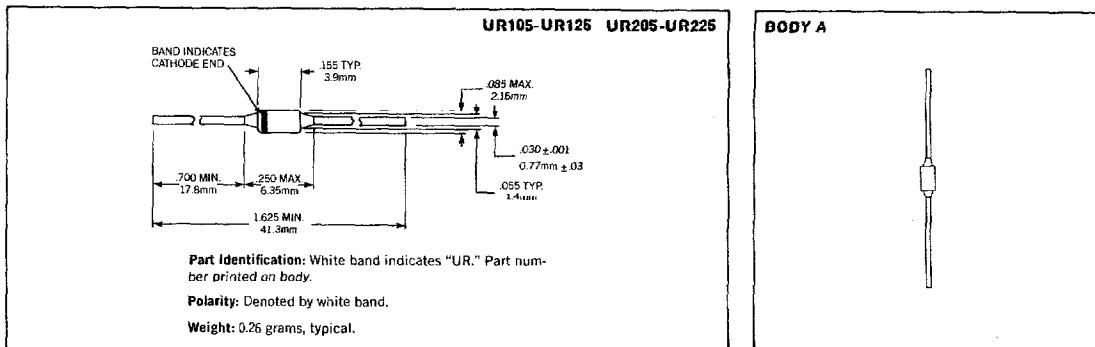
Storage Temperature Range -195°C to $+200^\circ\text{C}$

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	50V				10^{16} NVT
UR210	100V				10^{16}
UR215	150V	1.0V @ 1A	3 μ A	50 μ A	10^{15}
UR220	200V				10^{14}
UR225	250V				10^{14}
UR105	50V				10^{16}
UR110	100V				10^{16}
UR115	150V	1.0V @ 0.5A	3 μ A	50 μ A	10^{15}
UR120	200V				10^{14}
UR125	250V				10^{14}

MECHANICAL SPECIFICATIONS



Microsemi Corp.
Watertown

The diode experts

