

RECTIFIER ASSEMBLIES

High Voltage Stacks,
Standard and Fast Recovery

3

FEATURES

- PIV: from 10kV to 25kV
- Surge Ratings of 20A
- Recovery Time Available: to 500ns
- Current Ratings: to 0.6A
- Bonded Plate for Maximum Heat Transfer
- Controlled Avalanche Characteristics
- Only Fused-in Glass Diodes Used

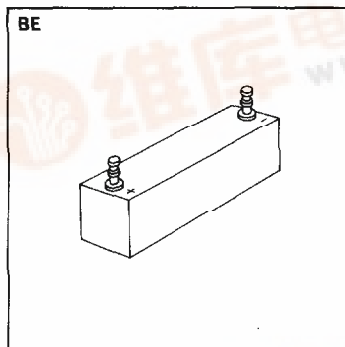
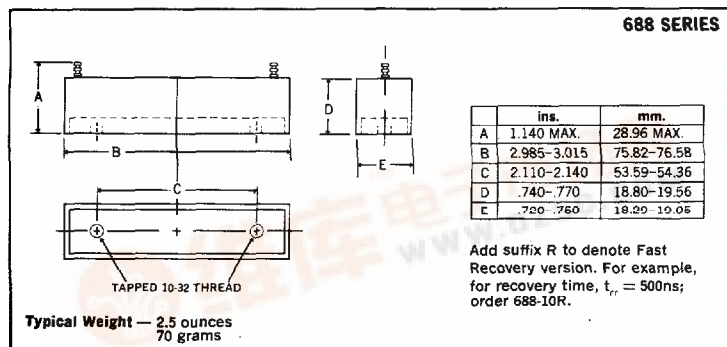
DESCRIPTION

This series of high power stacks has a unique packaging design that provides characteristics not obtainable in conventional molded epoxy packages. This series, therefore, is ideally suited for high-voltage, high-power applications.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage	10kV to 25kV
Maximum Average D.C. Output Current	See Electrical Specifications
Non-repetitive Sinusoidal Surge (8.3ms)	20A
Operating and Storage Temperature Range, T_C	-65°C to +150°C
Thermal Resistance Junction to Ambient	25°C/W
Junction to Case	10°C/W

MECHANICAL SPECIFICATIONS



MARKING

Cathode — Positive Output	+
Anode — Negative	-

Part number is printed on the body.

Microsemi Corp.
Watertown
The diode experts

Electrical Specifications (at 25°C unless noted)					Maximum Ratings
Type	PIV	Maximum Forward Voltage Drop	Maximum Leakage Current @ PIV		Maximum Average D.C. Output Current
			$T_A = 25^\circ\text{C}$	$T_A = 100^\circ\text{C}$	$T_C = 100^\circ\text{C}$
			μA	μA	Amps
Standard And Fast Recovery*	688-10	10	2	100	0.60
	688-12	12			0.50
	688-15	15			0.40
	688-18	18			0.35
	688-20	20			0.30
	688-25	25			0.20

*Add suffix R to denote Fast Recovery version.

