

**Microsemi Corp.**

*The diode experts*

SANTA ANA, CA

For more information call:  
(714) 979-8220

SCOTTSDALE, AZ

**MC5600 -  
MC5607**

**FEATURES**

- METALLURGICALLY BONDED, HERMETICALLY SEALED
- MONOLITHIC VOIDLESS CONSTRUCTION
- LOWEST REVERSE LEAKAGE
- SMALL PACKAGE SIZE
- LOWEST THERMAL RESISTANCE
- MAXIMUM BREAKDOWN VOLTAGE PER DIE
- ABSOLUTE HIGH VOLTAGE / HIGH TEMPERATURE STABILITY

**OPERATING TEMPERATURE**

MC5600-MC5603: -65°C to +150°C  
(derate I<sub>0</sub>: 4 mA/°C above 25°C)

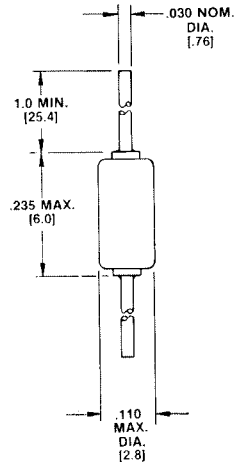
MC5604-MC5607: -65°C to +125°C  
(derate I<sub>0</sub>: 2.5 mA/°C above 25°C)

Storage Temperature (MC5600-MC5607):  
-65°C to +175°C

**ELECTRICAL CHARACTERISTICS**

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	AVERAGE RECTIFIED CURRENT I <sub>0</sub>		FORWARD VOLTAGE (MAX.) V <sub>F</sub> @ I <sub>0</sub> = 100mA	REVERSE CURRENT (MAX.) I <sub>R</sub> @ PIV	REVERSE CURRENT (MAX.) I <sub>R</sub> @ PIV	SURGE CURRENT (MAX.)
	VOLTS	mA		VOLTS	μA	μA	AMPS
		25°C	100°C			100°C	
MC 5600	1500	500	200	2.0	1.0	20	10
MC 5601	2000	500	200	3.0	1.0	20	8
MC 5602	2500	500	200	4.0	1.0	20	6
MC 5603	3000	500	200	5.0	1.0	20	5
MC 5604	4000	250	60	6.0	1.0	20	4
MC 5605	5000	250	60	7.0	1.0	20	3.0
MC 5606	7500	250	60	9.0	1.0	20	2.7
MC 5607	10,000	250	60	10.0	1.0	20	2.5

**MICRO SIZE  
HIGH VOLTAGE  
SILICON RECTIFIERS**



**FIGURE 1  
PACKAGE S**

**MECHANICAL CHARACTERISTICS**

CASE: Hermetically sealed glass package.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.