



MICROSEMICONDUCTOR CORPORATION

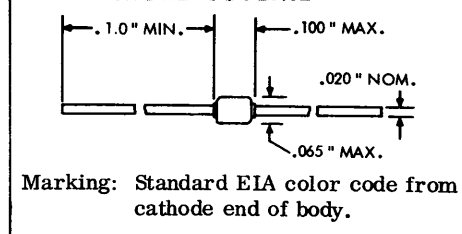
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BULLETIN 401
 MICRO SIZE
 ERICH SOMMER
 ELEKTRONIK GMBH
 6 FRANKFURT M 1

MINI-MICRO GLASS HIGH VOLTAGE RECTIFIERS

Every feature of the standard MSC high voltage rectifier is incorporated into this family of devices - plus a microminiature hermetically sealed double stud glass package to protect the industries most stable rectifier junction. Due to the whiskerless construction, this device family is able to endure the most hostile environments without degradation as evidenced by the fact that these units exceed the requirements of MIL-S-19500 and MIL-STD-202.

MECHANICAL OUTLINE



MAXIMUM RATINGS

Operating Temperature -65° C to +175° C

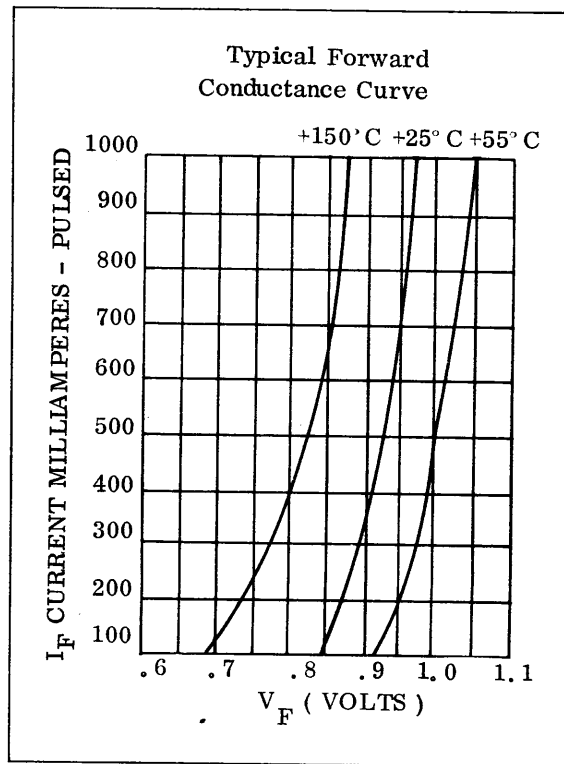
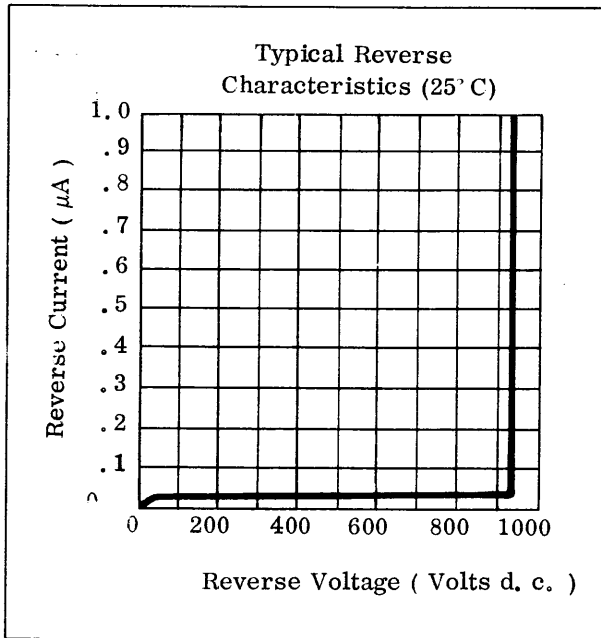
- * Maximum Power Dissipation
 500 mW @ 25° C - tinned dumet leads
 (lead finishes optional)
 750 mW @ 25° C - copper or silver leads

* This rating applies when diodes are mounted on turret terminals (.060" diameter x .375" minimum height) on .5" centers in free air. With fan cooling of at least 250 linear feet per minute air velocity this rating is increased by 50 percent.

ELECTRICAL CHARACTERISTICS

MSC Type	Industry Electrical Equivalent	Peak Inverse Voltage	Forward Current @ 1 V @ 25° C (1)	Reverse Current @ 25° C and Indicated Temperature		Maximum Peak One Cycle Surge Sinusoidal	Maximum Average Rectified Current		
							(A)	(mA)	
				(mA)	(μ A)		8.3 msec.	25° C	100° C
MT021	1N536	50	500	.200 @ PIV	15 @ PIV (150° C)	10	500	250	
MT021A		50	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT022	1N538	100	500	.200 @ PIV	15 @ PIV (150° C)	10	500	250	
MT022A		100	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT023		150	500	.200 @ PIV	15 @ PIV (150° C)	10	500	250	
MT023A		150	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT020	1N645	225	500	.200 @ PIV	15 @ PIV (150° C)	10	500	250	
MT020A		200	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT030	1N646	300	500	.200 @ PIV	15 @ PIV (150° C)	10	500	250	
MT030A		300	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT040	1N647	400	500	.200 @ PIV	15 @ PIV (150° C)	10	500	250	
MT040A		400	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT050	1N648	500	500	.200 @ PIV	15 @ PIV (150° C)	10	500	250	
MT050A		500	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT060	1N649	600	500	.200 @ PIV	25 @ PIV (150° C)	10	500	250	
MT060A		600	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT070		700	500	.200 @ PIV	25 @ PIV (150° C)	10	500	250	
MT070A		700	500	.025 @ PIV	5 @ PIV (150° C)	10	500	250	
MT080		800	400	.300 @ PIV	30 @ PIV (150° C)	10	500	250	
MT080A		800	400	.050 @ PIV	10 @ PIV (150° C)	10	500	250	
MT090		900	400	.300 @ PIV	30 @ PIV (150° C)	10	500	250	
MT090A		900	400	.050 @ PIV	10 @ PIV (150° C)	10	500	250	
MT100		1000	400	.500 @ PIV	50 @ PIV (150° C)	10	500	250	
MT100A		1000	400	.050 @ PIV	10 @ PIV (150° C)	10	500	250	

(1) Measurement should be made with a constant current source. Current handling capabilities of up to 1 Amp under pulse conditions of 300 μsec. pulse width, 1% duty cycle.



PRICING:

For small quantity prices, please contact your local authorized MicroSemiconductor Corporation distributor.

For production quantity prices, please contact the factory.

