

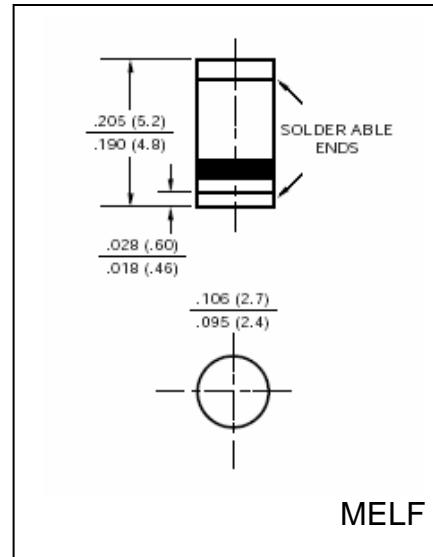
GENERAL PURPOSE RECTIFIER

SM4001 THRU SM4007

VOLTAGE RANGE
CURRENT50 to 1000 Volts
1.0 Ampere

FEATURES

- Low reverse leakage
- High forward surge current capacity
- High temperature soldering guaranteed:
260 /10 seconds, at terminal



MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V – 0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated terminal, solderable per MIL-STD-202E method 208C
- Mounting position: any
- Weight: 0.0046 ounce, 0.116 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	SM 4001	SM 4002	SM 4003	SM 4004	SM 4005	SM 4006	SM 4007	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, at T _A = 75°C	I _(AV)								Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}								Amps
Maximum Instantaneous Forward Voltage @ 1.0A	V _F								Volts
Maximum DC Reverse Current at Rated T _A = 25 °C	I _R								µA
DC Blocking Voltage per element T _A = 100 °C									
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J								pF
Typical Thermal Resistance (Note 1)	R _{θJA}								°C/W
Operating Junction Temperature Range	T _J								°C
Storage Temperature Range	T _{STG}								°C

Notes:

