

SM4001 - SM4007

PRV: 50 - 1000 Volts

lo: 1.0 Ampere

FEATURES:

- * Glass Passivated Junction
- * Hight Current Capability
- * Low Forward voltage Drop
- * Hight Reliability and Low Leakage
- * For Surface Mount Application
- * Plastic Material UL Flammability Classification Rating 94 V-0
- * Pb / RoHS Free

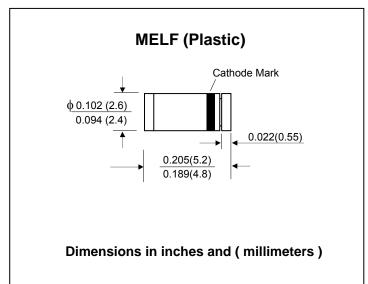
Mechanical Data

* Case: MELF, Plastic

* Terminals : Solderable per MIL-STD-202, Method 208

* Polarity : Color band* Approx Weight : 0.25 grams* Mounting Position : Any

SURFACE MOUNT GLASS PASSIVATED JUNCTION



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single phase, half wave, 60 Hz, resistive or inductive load For capacitive load, derate current by 20%

RATING	SYMBOL	SM4001	SM4002	SM4003	SM4004	SM4005	SM4006	SM4007	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _R	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0						Α	
Peak Forward Surge Current 8.3ms single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	30						Α	
Maximum Forward Voltage at I _F = 1.0 A.	V _F	1.1						V	
Maximum DC Reverse Current Ta = 25 °C	1_	5.0							μΑ
at rated DC Blocking Voltage Ta = 125 °C	I _R	50							μΑ
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	50					°C/W		
Typical Junction Capacitance (Note1)	CJ	15					pF		
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						°C	

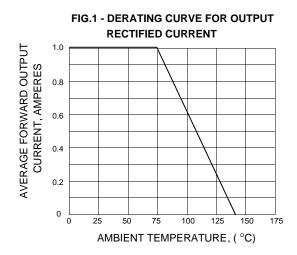
Note:

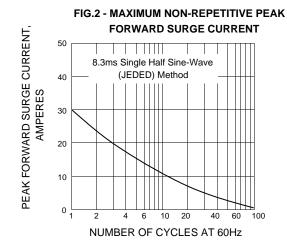
(1) Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC

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RATING AND CHARACTERISTIC CURVES (SM4001 - SM4007)





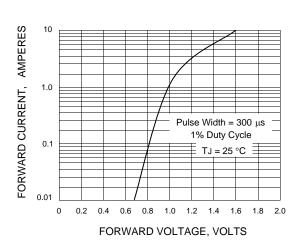
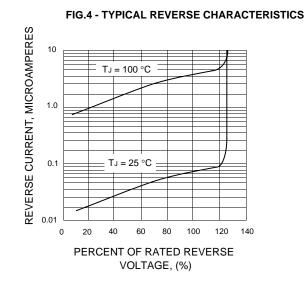


FIG.3 - TYPICAL FORWARD CHARACTERISTICS



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