

UMW 1N4001(M1)-1N4007(M7)

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

1.Features

- The plastic package carries UnderwritersLaboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage

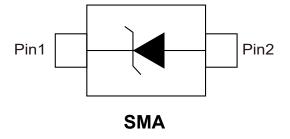
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
 250°C/10 seconds at terminals

2.Mechanical Data

- Case: JEDEC DO-214AC molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight:0.003 ounce, 0.093 grams

3. Pinning information





4. Maximum Ratings And Electrical Characteristics

Parameter	Symbols	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Units
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		1						Amp	
at T∟=110°C	I _(AV)								
Peak forward surge current 8.3ms single									
half sine-wave superimposed on rated load	I _{FSM}	30						Amps	
(JEDEC method)									
Maximum instantaneous forward voltage at 1.0A	V _F	1					Volts		
Maximum DC reverse current T _A =25°C		5							
at rated DC blocking voltage T _A =100°C	- I _R	50				uA			
Typical junction capacitance (NOTE 1)	C _J	15					pF		
Typical thermal resistance (NOTE 2)	R_{qJA}	75					°C/W		
Junction and storage temperature range	T_{J}, T_{STG}	-55 to 150					°C		

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

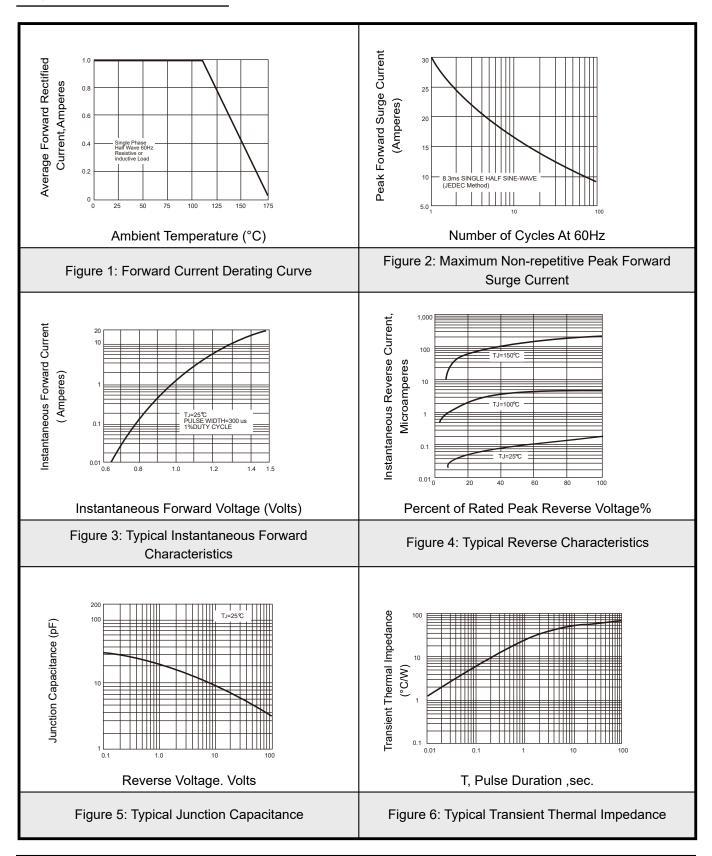
Notes:

1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas.

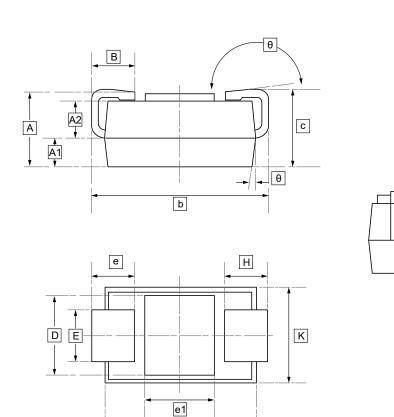


5. Typical characteristic





9.SMA Package Outline Dimensions

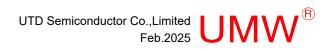


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DIMENSIONS (mm are the original dimensions)

Symbol	Α	A 1	A2	В	b	С	D	E	e1	٦	K	θ
Min	1.95	0.77	0.97	1.10	4.95	2.00	2.09	1.38	1.95	4.25	2.60	0°
Max	2.05	0.83	1.03	1.30	5.15	2.20	2.19	1.42	2.05	4.35	2.65	5°

Notes: e-H<0.15mm





7 .Ordering information



Order Code	Package	Base QTY	Delivery Mode		
UMW 1N4007(M7)	SMA	2000	Tape and reel		

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8.Disclaimer

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