MSKSEMI 美森科













ESD

VS

SS

MOV

GDT

PIFD

1N4001 THRU 1N4007

Product specification





VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- •Ideal for surface mount applications
- Easy pick and place
- ●Built-in strain relief
- High surge current capability

MECHANICAL DATA

◆Case: Molded plastic

●Epoxy: UL 94V-0 rate flame retardant

●Terminals: Solder plated, solderable per MIL-STD-202F,

method 208 guranteed

Polarity: Color band denotes cathode end

•Mounting position: Any

●Weight: 0.063 gram

Reference News

PACKAGE OUTLINE	PIN CONFIGURATION	PINNING		
		PIN	DESCRIPTION	
		1 Cathode 2 A node	Cathode	
			A node	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 $\,^{\circ}$ C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	1N4001 M1	1N4002 M2	1N4003 M3	1N4004 M4	1N4005 M5	1N4006 M6	1N4007 M7	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
.375"(9.5mm) Lead Length at Ta=75℃ 1.0					Α			
Peak Forward Surge Current, 8.3 ms single half								
sine-wave superimposed on rated load (JEDEC method)	perimposed on rated load (JEDEC method)			Α				
Maximum Instantaneous Forward Voltage at 1.0A	1.1			V				
Ta=25℃		5.0						μA
Ta=100℃		50						μA
Typical Junction Capacitance (Note 1)		15						pF
Typical Thermal Resistance R JA (Note 2)		50						°C/W
Operating and Storage Temperature Range Тл , Тsтв	-65—-+150			$^{\circ}$				

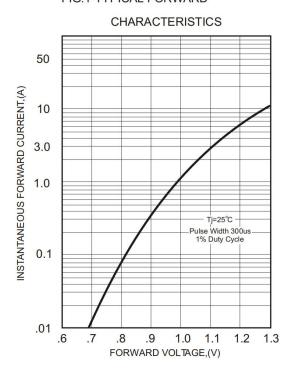
NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient.



RATING AND CHARACTERISTIC CURVES (1N4001 THRU 1N4007)

FIG.1-TYPICAL FORWARD



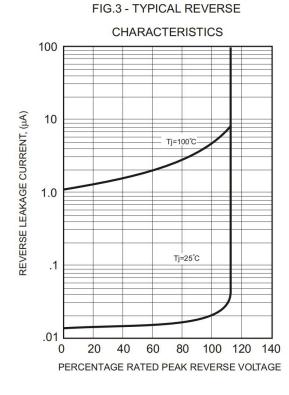


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

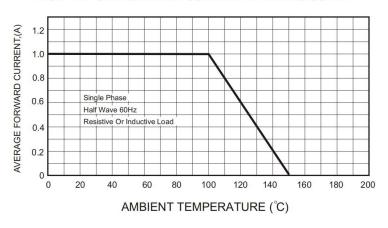


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

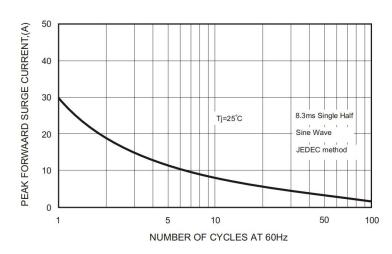
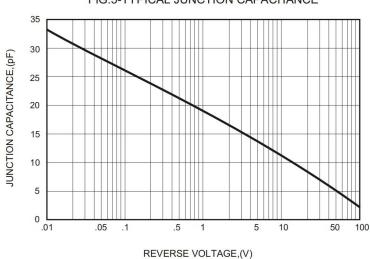
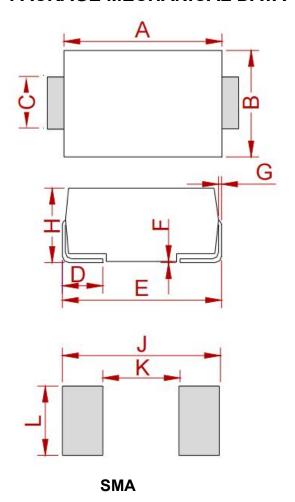


FIG.5-TYPICAL JUNCTION CAPACITANCE





PACKAGE MECHANICAL DATA



		Dimensions				
Ref.	Millimeters		Inc	hes		
	Min.	Max.	Min.	Max.		
Α	4.25	4.65	0.167	0.183		
В	2.50	2.90	0.098	0.114		
С	1.35	1.65	0.053	0.065		
D	0.76	1.52	0.030	0.060		
E	4.93	5.28	0.194	0.208		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	1.98	2.41	0.078	0.095		
J	6.50		0.256			
K		2.30		0.090		
L	1.70		0.067			

REEL SPECIFICATION

P/N	PKG	QTY
1N4001 THRU 1N4007	SMA	2000

M1	M2	M3	M4	M5	M6	M7
1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007
MARKING: M1	MARKING: M2	MARKING: M3	MARKING: M4	MARKING: M5	MARKING: M6	MARKING: M7



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