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 °C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

To Capacitive load, delate current by 2070.								
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)	30					Α		
Maximum Instantaneous Forward Voltage at 1.0A		1.1						٧
Ta=25℃		5.0					μA	
Ta=100°C		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 , Тsтс		-65——+150					$^{\circ}$ C	

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

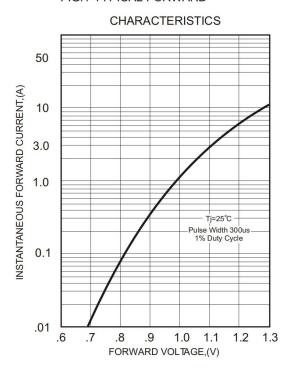


FIG.3 - TYPICAL REVERSE

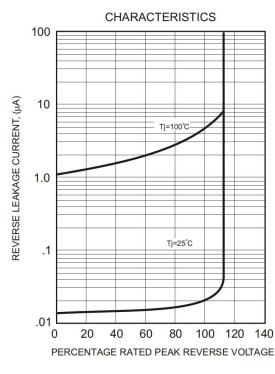


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

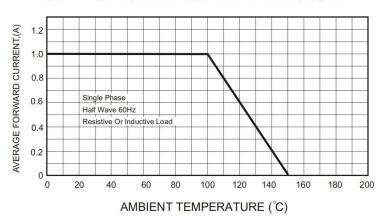


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

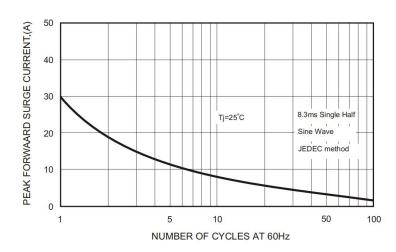
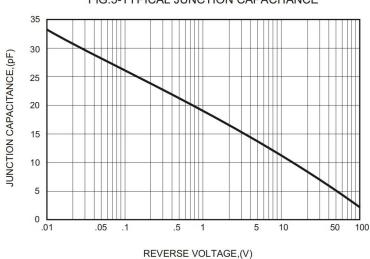
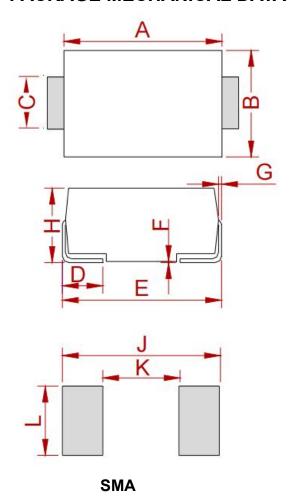


FIG.5-TYPICAL JUNCTION CAPACITANCE





PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Milli	meters	Inches		
	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	
Е	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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