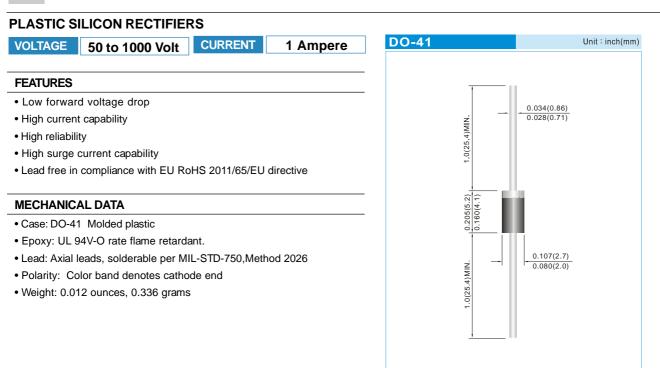




# 1N4001-1N4007



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current 0.375"(9.5mm) lead length at $T_A=75^{\circ}C$		1.0					А		
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load		30					А		
Maximum Forward Voltage at 1.0A		1.1				V			
Maximum DC Reverse Current at Rated T <sub>j</sub> =25°C DC Blocking Voltage T <sub>j</sub> =100°C	I <sub>R</sub>				5.0 500				μA
Typical Junction Capacitance (Note 1)	C				15				рF
Typical Thermal Resistance (Note 2)		110 40 35					°C / W		
Operating Junction and Storage Temperature Range		-55 to +150				°C			

### NOTES :

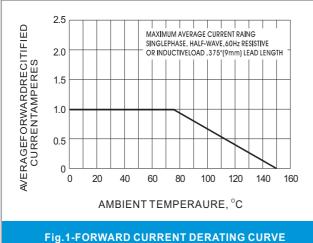
1. Measured at 1 MHz and applied reverse voltage of 4 VDC.

2. Thermal Resistance from Junction to Ambient and from junction to lead at 0.375" (9.5mm) lead length P.C.B.mounted.



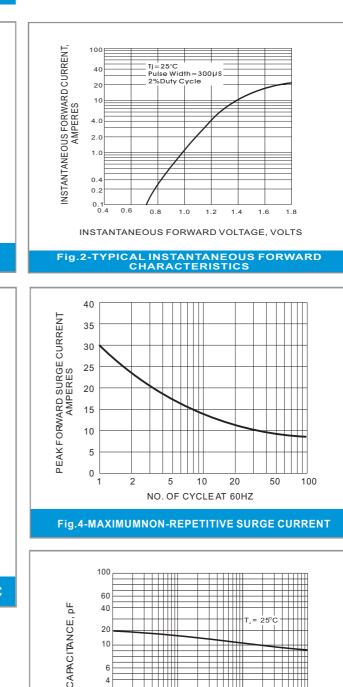
# 1N4001-1N4007

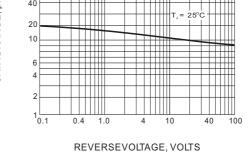
### **RATING AND CHARACTERISTIC CURVES**



### NSTANTANEOUS REVERSE CURRENT , $\mu A$ 1000 = 125 100 10 00°C 1.0 T. = 25°C 0.1 100 120 40 60 80 140 20 PERCENTAGE OF PEAK REVERSE VOLTAGE,%

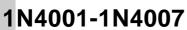
## Fig.3-TYPICAL REVERSE CHARACTERISTIC





**Fig.5-TYPICAL JUNCTION CAPACITANCE** 

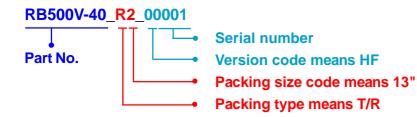




## Part No\_packing code\_Version

1N4001_AY_00001
1N4001_AY_10001
1N4001_B0_00001
1N4001_B0_10001
1N4001_R2_00001
1N4001_R2_10001

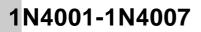
## For example :



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			







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