1N4001 - 1N4007

SILICON RECTIFIER DIODES

PRV: 50 - 1300 Volts Io: 1.0 Ampere

FEATURES:

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA:

* Case: DO-41 Molded plastic

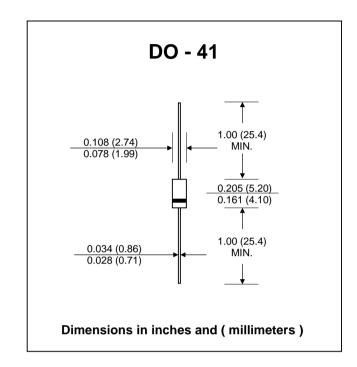
* Epoxy: UL94V-O rate flame retardant

* Lead: Axial lead solderable per MIL-STD-202,

Method 208 guaranteed

* Polarity: Color band denotes cathode end

* Mounting position : Any * Weight : 0.335 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

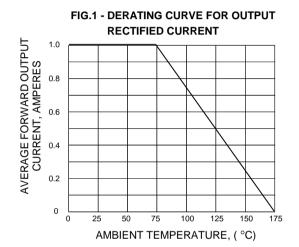
RATING	SYMBOL	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNIT
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 75 °C	I F(AV)				1.0				Α
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	Ігѕм	30							А
Maximum Forward Voltage at IF = 1.0 Amp.	VF	1.1						V	
Maximum DC Reverse Current Ta = 25 °C	IR	5.0						μΑ	
at rated DC Blocking Voltage Ta = 100 °C	I _R (H)	50						μА	
Typical Reverse Recovery Time (IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.)	Trr	2.0						μS	
Typical Junction Capacitance (Note1)	Сл	15						рF	
Typical Thermal Resistance (Note2)	RθJA	26						°C/W	
Junction Temperature Range	TJ	- 65 to + 175						°C	
Storage Temperature Range	Тѕтс	- 65 to + 175						°C	

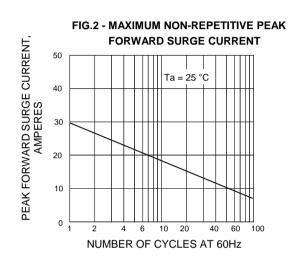
Notes: (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC

(2) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.

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RATING AND CHARACTERISTIC CURVES (1N4001 - 1N4007)







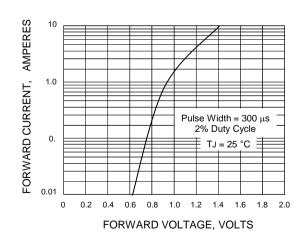
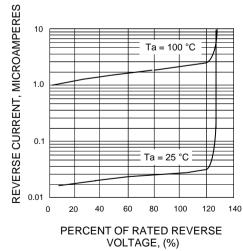


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 JAN1N4153-1

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