

1N4001 THRU 1N4007

1.0AMP . SILICON RECTIFIERS

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed $260^{\circ}\text{C}\ / 10\text{sec}/\ 0.375"$ lead length at 5 lbs tension

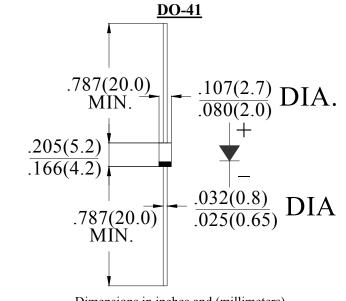
MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy

. Polarity: color band denotes cathode

. Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

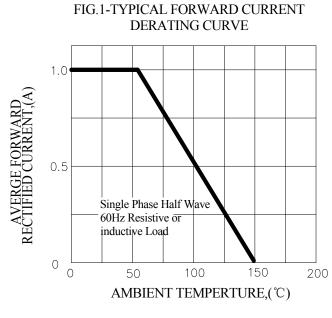
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

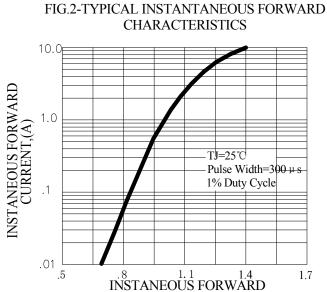
For capacitive load, derate current by 20%

Type Number	SYM BOL	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T _A =55°C	$I_{\mathrm{F(AV)}}$	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{ m FSM}$	30.0							A
Maximum Forward Voltage at 1.0A DC	V_{F}	1.0							V
Maximum Forward Voltage at 3.0A DC	V_{F}	1.3							V
Maximum DC Reverse Current @ $T_A=25^{\circ}$ C at rated DC blocking voltage @ $T_A=100^{\circ}$ C	$I_{ m R}$	5.0 100.0							μΑ
Typical Junction Capacitance (Note 1)	$C_{ m J}$	15							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	75							°C/W
Storage Temperature	$T_{\rm STG}$	-55 to +150							°C
Operation JunctionTemperature	$T_{ m J}$	-55 to +150							°C

Note:

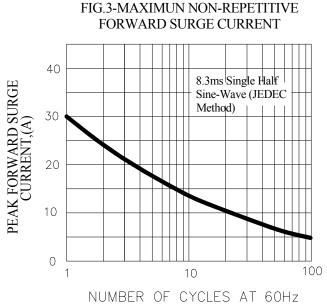
- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.

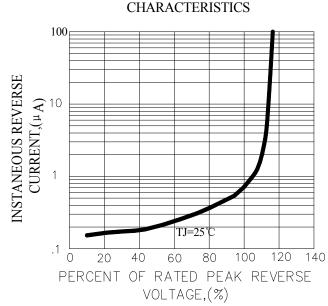




VOLTAGE,(V)

FIG.4-TYPICAL REVERSE





X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Pingwei manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP