



MOTOROLA

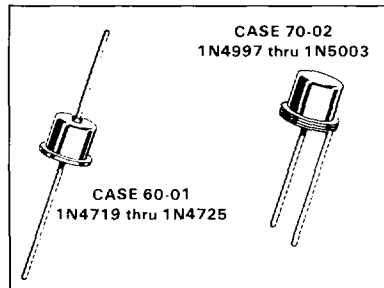
**1N4719 thru 1N4725
1N4997 thru 1N5003**

LEAD MOUNTED POWER RECTIFIERS

... having low forward voltage drop and hermetic metal packages. High surge current capability and good thermal characteristics provide reliable operation.

SILICON RECTIFIERS

**3.0 AMPERES
50-1000 VOLTS
DIFFUSED JUNCTION**



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*MAXIMUM RATINGS (Both Package Types) $T_A = 25^\circ\text{C}$ unless otherwise noted

Rating	Symbol	1N4719 1N4997	1N4720 1N4998	1N4721 1N4999	1N4722 1N5000	1N4723 1N5001	1N4724 1N5002	1N4725 1N5003	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	Volts
Nonrepetitive Peak Reverse Voltage (one half-wave, single phase 60 cycle peak)	V_{RSM}	100	200	300	500	720	1000	1200	Volts
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	Volts
Average Rectified Forward Current (single phase, resistive load, 60 Hz $T_A = 75^\circ\text{C}$)	I_O	3.0							Amp
Nonrepetitive Peak Surge Current (superimposed on rated current at rated voltage, $T_A = 75^\circ\text{C}$)	I_{FSM}	300 (for 1-2 cycle)							Amp
Operating and Case Temperature	T_J, T_{stg}	65 to +175							$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Max Limit	Unit
*Instantaneous Forward Voltage ($I_F = 3.0\text{ A}$, $T_J = 75^\circ\text{C}$, Half Wave Rectifier)	V_F	1.0	Volts
*Full Cycle Average Reverse Current ($I_O = 3.0\text{ Amps}$ and Rated V_R , $T_A = 75^\circ\text{C}$, Half Wave Rectifier)	$I_{R(AV)}$	1.5	mA
DC Reverse Current (Rated V_R , $T_A = 25^\circ\text{C}$)	I_R	0.5	mA

*Indicates JEDEC Registered Data

MECHANICAL CHARACTERISTICS

CASE: Welded, hermetically sealed construction
FINISH: All external surfaces corrosion-resistant and leads readily solderable.
POLARITY: CATHODE TO CASE
MOUNTING POSITIONS: Any

1N4719 thru 1N4725, 1N4997 thru 1N5003

OUTLINE DIMENSIONS

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