

MOTOROLA
SEMICONDUCTOR
 TECHNICAL DATA

1N4719
 thru
1N4725

1N4722 and 1N4725 are
 Motorola Preferred Devices

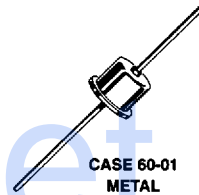
LEAD MOUNTED POWER RECTIFIERS

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

- $R_{\theta JA} = 30^{\circ}\text{C/W}$

SILICON RECTIFIERS

3.0 AMPERES
50-1000 VOLTS
DIFFUSED JUNCTION



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

Rating	Symbol	1N4719	1N4720	1N4721	1N4722	1N4723	1N4724	1N4725	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWV} 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 →							$^{\circ}\text{C}$

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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