

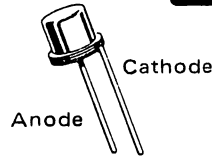
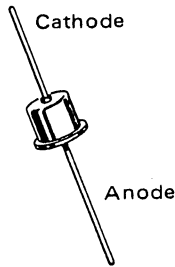
1N4719 thru 1N4725 (SILICON)
1N4997 thru 1N5003



SOLID STATE INC.

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1N4719 THRU 1N4725

1N4997 thru 1N5003

Silicon high-conductance rectifiers available in either axial-lead or single-ended packages. Type numbers shown have cathode connected to case. For anode-to-case connection, add suffix "R" to type number, i. e. 1N4719R

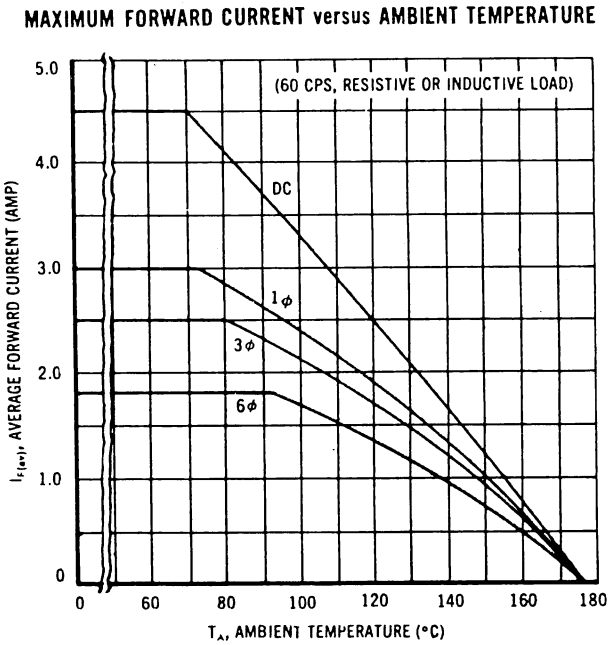
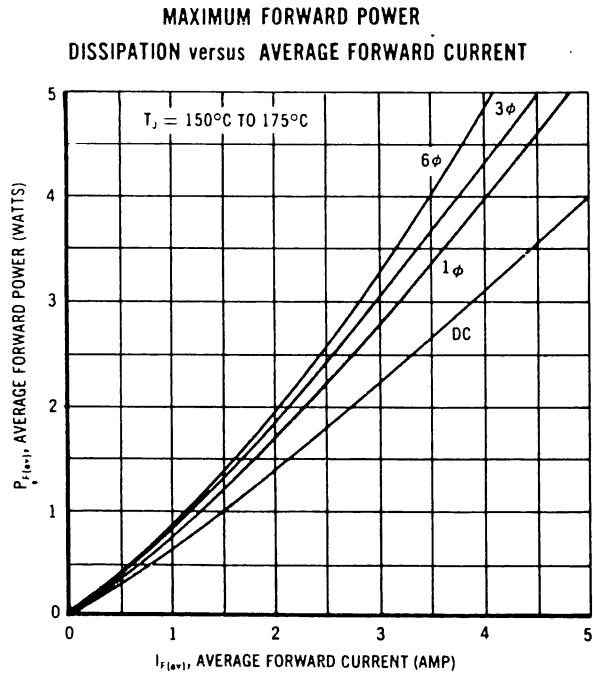
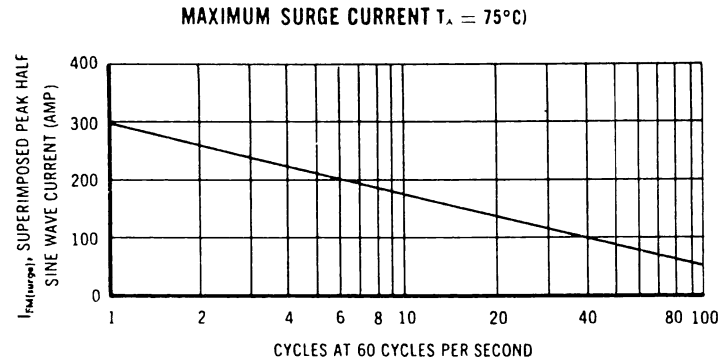
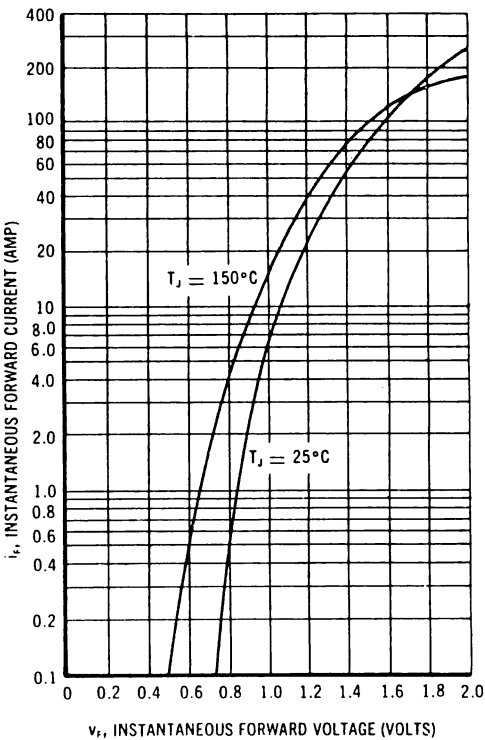
MAXIMUM RATINGS (Both Package Types) $T_A = 25^\circ\text{C}$ unless otherwise noted.

Rating	Symbol	1N 4719 1N 4997	1N 4720 1N 4998	1N 4721 1N 4999	1N 4722 1N 5000	1N 4723 1N 5001	1N 4724 1N 5002	1N 4725 1N 5003	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
Non-Repetitive 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, $T_A = 75^\circ\text{C}$) see figure 4	I_O	3.0							Amp
Peak Repetitive Forward Current ($T_A = 75^\circ\text{C}$)	I_{FRM}	25							Amp
Non-Repetitive Peak Surge Current (superimposed on rated current at rated voltage, $T_A = 75^\circ\text{C}$) see figure 1	I_{FSM}	300 (for 1/2 cycle)							Amp
I^2t Rating (non-repetitive, 1 ms < t < 8.3 ms)	I^2t	185							$A_{(rms)}^2s$
Operating and Case Temperature	T_J, T_{stg}	-65 to +175							$^\circ\text{C}$
Thermal Resistance, Junction to Case (note 1)	$R_{\theta JA}$	30							$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Max Limit	Unit
Instantaneous Forward Voltage ($i_F = 9.4 \text{ A}$, $T_J = 175^\circ\text{C}$, 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

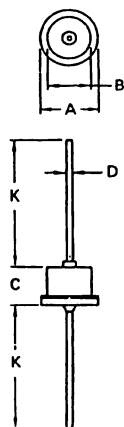
FORWARD VOLTAGE CHARACTERISTICS



1N4719 thru 1N4725, 1N4997 thru 1N5003

OUTLINE DIMENSIONS

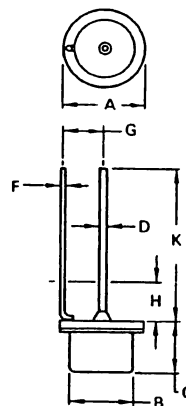
A179



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	-	11.43	-	0.450
B	-	8.89	-	0.350
C	-	7.62	-	0.300
D	1.17	1.42	0.046	0.056
K	24.89	-	0.980	-

1N4719 thru 1N4725

M176



NOTE:
1. DIM "G" CONTROLLED
WITHIN ZONE "H".

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	10.16	12.70	0.400	0.500
B	7.62	8.89	0.300	0.350
C	6.60	8.89	0.260	0.350
D	1.17	1.42	0.046	0.056
F	0.69	0.94	0.027	0.037
G	4.19	4.95	0.165	0.195
H	3.05	3.30	0.120	0.130
K	22.86	-	0.900	-

1N4997 thru 1N5003