

1N5614 THRU 1N5622

1 AMP

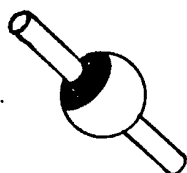
STANDARD RECOVERY RECTIFIER

200—1000 VOLTS



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CASE STYLE



FEATURES

- PIV TO 1000 VOLTS
- LOW REVERSE LEAKAGE
- HERMETICALLY SEALED
- SINGLE CHIP CONSTRUCTION

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage and DC Blocking Voltage	$V_{RM} (rep)$ V_R		Volts
1N5614		200	
1N5616		400	
1N5618		600	
1N5620		800	
1N5622		1000	
RMS Reverse Voltage	V_r		Volts
1N5614		140	
1N5616		280	
1N5618		420	
1N5620		560	
1N5622		700	
Half Wave Rectified Forward Current, Averaged Over Full Cycle (Resistive Load, 60 Hz, Sine Wave, $T_A = 55^\circ C$)	I_O	1	Amps
Peak Repetitive Forward Current ($T_A = 55^\circ C$, 8.3 ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)	$I_{FM} (rep)$	50	Amps
Peak Surge Current ($T_A = 55^\circ C$, Superimposed on Rated Current at Rated Voltage, 8.3 ms Pulse)	$I_{FM} (surge)$	100	Amps
Operating and Storage Temperature	T_J, T_{stg}	-65 to +200	$^\circ C$

THERMAL CHARACTERISTICS

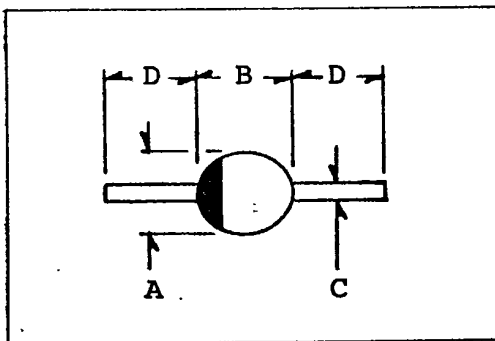
Characteristics	Symbol	Max	Unit
Thermal Resistance, Junction to Leads, $L = 3/8"$	$R_{\theta JL}$	30	$^\circ C/W$

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Value	Unit
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle (I_O (Max), 60 Hz, Square Wave, $T_A = 55^\circ\text{C}$)	$V_F(AV)$	.95	Vdc
Max Instantaneous Forward Voltage Drop ($I_F = 1\text{ A}$ dc, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	V_F	1.0	Vdc
Max Full Cycle Reverse Leakage Current, Averaged Over Full Cycle (Rated V_R 60Hz, Square Wave, $T_A = 100^\circ\text{C}$)	$I_R(AV)$	200	μA dc
Max Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$)	I_R	500	μA dc
Max Junction Capacitance ($V_R = 10\text{ V}$, $T_A = 25^\circ\text{C}$)	C_J	20	pf

REVERSE RECOVERY CHARACTERISTICS

Characteristics	Symbol	Min	Typ	Max	Unit
Reverse Recovery Time ($I_F = 500\text{ma}$, $I_R = 1\text{A}$, $I_{RR} = 250\text{ma}$)	t_{rr}			5	μs

PHYSICAL DIMENSIONS**KEY TO DIMENSIONS:**

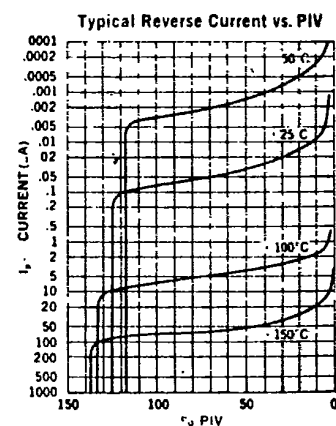
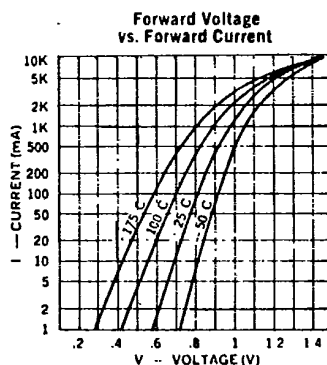
(Inches)

A = .100 - .150

B = .180 Max.

C = .029 - .035

D = 1.13 Min.

TYPICAL OPERATING CURVES

SSDII SOLID STATE DEVICES, INC.