
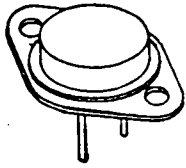


SEA2605 30 AMP ULTRA FAST CENTERTAP RECTIFIER 500 VOLTS	
	14830 Valley View Avenue La Mirada, California 90638 P. O. Box 577 La Mirada, California 90637 (213) 921-9660 TWX 910-583-4807

**CASE STYLE V**  
**JEDEC TO-3 WITH .060 PINS**



**FEATURES**

- PIV TO 500 VOLTS
- ULTRA FAST 80 NSEC.
- LOW THERMAL RESISTANCE
- HIGH CURRENT SURGE
- LOW LEAKAGE

X00189

**MAXIMUM RATINGS**

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Per Leg and DC Blocking Voltage Per Leg	$V_{RM (rep)}$ $V_R$	500	Volts
RMS Reverse Voltage Per Leg	$V_r$	350	Volts
Half Wave Rectified Forward Current, Averaged Over Full Cycle (Resistive Load, 60Hz, Sine Wave, $T_C = 55^\circ C$ )	$I_o$	30	Amps
Peak Repetitive Forward Current ( $T_C = 55^\circ C$ , 8.3 ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)	$I_{FM (rep)}$	100	Amps
Peak Surge Current ( $T_C = 55^\circ C$ , Superimposed on Rated Current at Rated Voltage, 8.3 ms Pulse)	$I_{FM (surge)}$	300	Amps
Operating and Storage Temperature	$T_J, T_{stg}$	-65 to +200	$^\circ C$

**THERMAL CHARACTERISTICS**

Characteristics	Symbol	Max	Unit
Thermal Resistance, Junction to Case	$R_{\theta JC}$	1.0	$^\circ C/W$

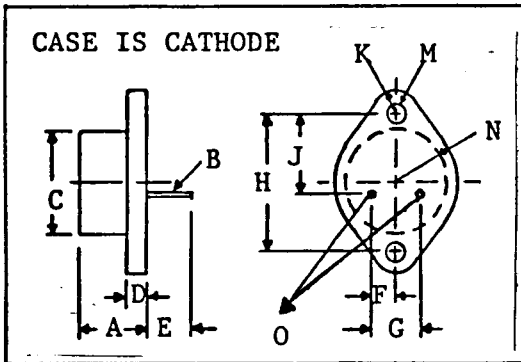
# ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Value	Unit
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle, Per Leg ( $I_O$ (Max), 60 Hz Square Wave, $T_C = 55^\circ\text{C}$ )	$V_{F(AV)}$	0.75	Vdc
Max Instantaneous Forward Drop Per Leg ( $I_F = 1.5$ Adc, $T_C = 25^\circ\text{C}$ , 300 $\mu\text{s}$ Pulse)	$V_F$	1.5	Vdc
Max Full Cycle Reverse Leakage Current, Averaged Over Full Cycle, Per Leg (Rated $V_R$ , 60Hz, Square Wave, $T_C = 100^\circ\text{C}$ )	$I_{R(AV)}$	5	mADC
Max Reverse Leakage Current Per Leg (Rated $V_R$ , $T_C = 25^\circ\text{C}$ )	$I_R$	50	$\mu\text{A}$ dc
Max Junction Capacitance Per Leg. ( $V_R = 10$ V, $T_C = 25^\circ\text{C}$ )	$C_J$	400	pf

## REVERSE RECOVERY CHARACTERISTICS

Characteristics	Symbol	Min	Typ	Max	Unit
Reverse Recovery Time ( $I_F = 500\text{ma}$ , $I_R = 1\text{A}$ , $I_{RR} = 250\text{ma}$ )	$t_{rr}$	--	--	80	ns

## PHYSICAL DIMENSIONS



### KEY TO DIMENSIONS:

(Inches)

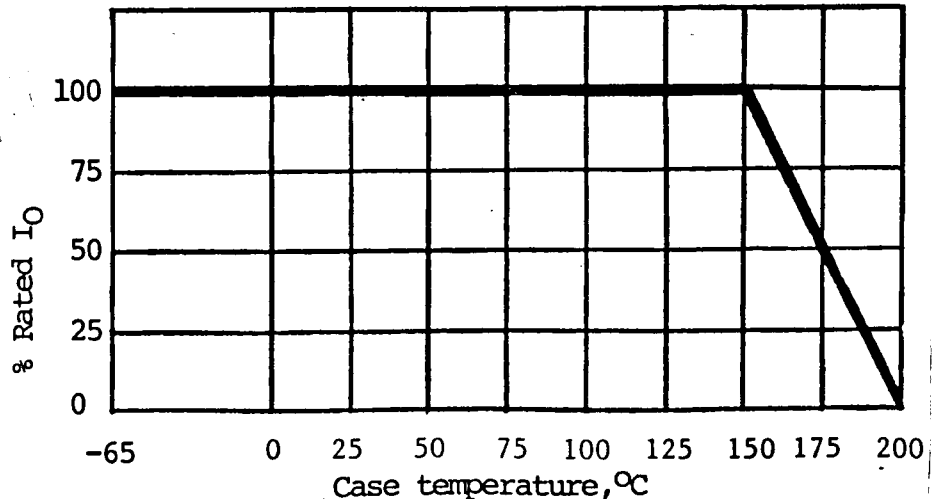
- A = .250 - .450
- B = .057 - .062
- C = .875 MAX.
- D = .135 MAX.
- E = .312 MIN.
- F = .205 - .225
- G = .420 - .440
- H = 1.177 - 1.197
- J = .655 - .675
- K = .188 MAX.
- M = .151 - .161
- N = .525 MAX.
- O = Anode

## SCHEMATIC

### POSITIVE CENTERTAP



## TYPICAL OPERATING CURVES



**SSDI** SOLID STATE DEVICES, INC.