

## SDR952CTN &amp; P THROUGH SDR955CTN &amp; P

100 AMP

ISOLATED FLAT PACK

HYPER FAST RECTIFIER

POSITIVE CENTERTAP

200 - 500 VOLTS

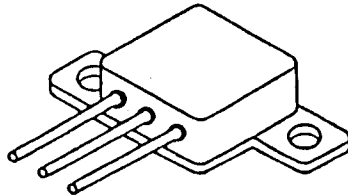
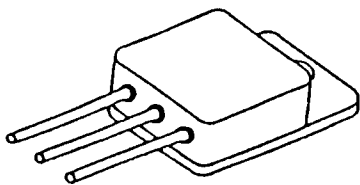
SSDI

14849 FIRESTONE BLVD.  
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## CASE STYLE

T0-258(N)

T0-259(P)



## FEATURES

- ▶ ISOLATED LOW PROFILE PACKAGE
- ▶ HYPER FAST RECOVERY 35nsec MAX
- ▶ HIGHER VOLTAGES AVAILABLE
- ▶ 200 °C OPERATING, EUTECTIC DIE ATTACH
- ▶ REVERSE VOLTAGE TO 500 VOLTS
- ▶ LOW REVERSE LEAKAGE, LOW CAPACITANCE
- ▶ HERMETICALLY SEALED
- ▶ AVAILABLE IN COMMON ANODE (CAN/CAP) AND DOUBLER (DN/DP) CONFIGURATION

## MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage Per Leg and DC Blocking Voltage Per Leg (IR = 100 μA)	VRM(rep) VR		Volts
SDR952CTN & P		200	
SDR953CTN & P		300	
SDR954CTN & P		400	
SDR955CTN & P		500	
Half Wave Rectified Forward Current Averaged Over Full Cycle (Resistive Load, 60Hz, Sine Wave, TC=25 °C)	I0	100	Amps
Peak Repetitive Forward Current (TC=55 °C, 8.3ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)	IFM(rep)	200	Amps
Peak Surge Current (TC=55 °C, 8.3ms Pulse, Superimposed on Rated Current at Rated Voltage)	IFM(surge)	1000	Amps
Operating and Storage Temperature	TJ, Tstg	-65 to +200	°C

## THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Thermal Resistance, Junction to Case, both legs tied together	RθJC	0.5	°C/W

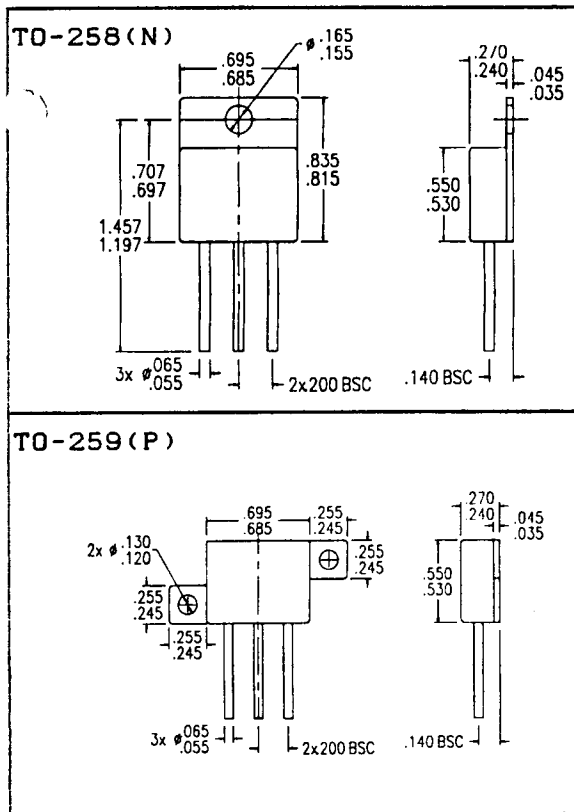
# ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNITS
Max Instantaneous Forward Voltage Drop Per Leg * (IF = 50Adc, TA = 25 °C)	VF	1.5	Volts
Max Instantaneous Forward Voltage Drop Per Leg * (IF = 50Adc, TA = 100 °C)	VF	1.4	Volts
Max Reverse Leakage Current Per Leg * (VR = 80% Rated VR, TA = 25 °C)	IR	100	μAdc
Max Reverse Leakage Current Per Leg * (VR = 80% Rated VR, TA = 100 °C)	IR	10	mAdc
Max Junction Capacitance Per Leg (VR = 10V, TA = 25 °C)	CJ	250	pf
Max Reverse Recovery Time Per Leg (IF = 500mA, IR = 1A, IRR = 250mA)	trr	35	ns

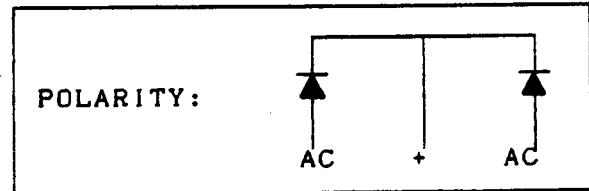
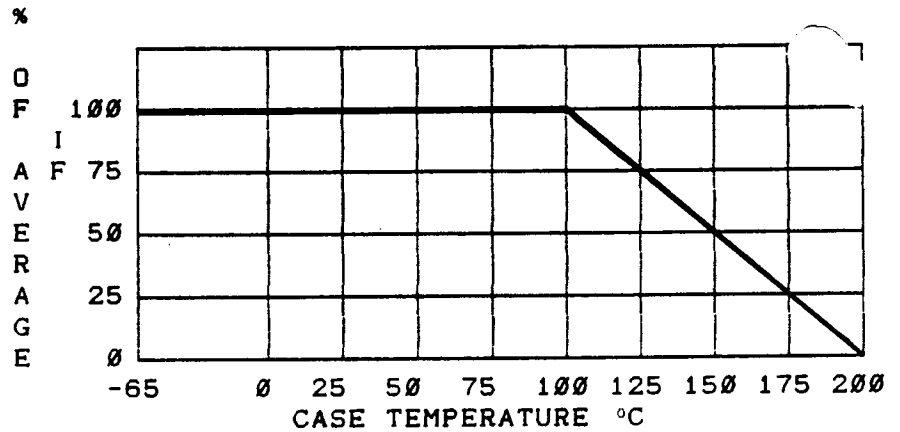
\*) Pulse Width = 300 μs. Duty Cycle = 2 %.

## PHYSICAL DIMENSIONS

## TYPICAL OPERATING CURVES



MAXIMUM FORWARD CURRENT VS. LEAD TEMP.



**SSDI**

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