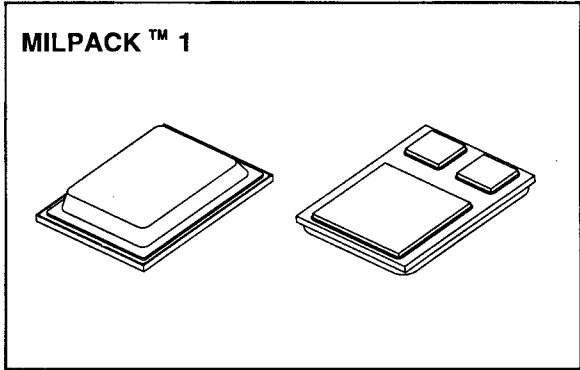


**SDR950E  
 thru  
 SDR952E**

**60 AMP  
 100-200 VOLTS  
 35 nsec  
 HYPER FAST  
 RECTIFIER**



**Designer's Data Sheet**

- FEATURES:**
- Hyper Fast Recovery: 35 nsec Maximum
  - High Surge Rating
  - Low Reverse Leakage Current
  - Low Junction Capacitance
  - Hermetically Sealed Surface Mount Package
  - Gold Eutectic Die Attach available
  - Ultrasonic Aluminum Wire Bonds
- TX, TXV and Space Level Screening Available

**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	100	Volts
SDR950E	VRWM	150	
SDR951E	VR	200	
SDR952E			
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	Io	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C) note 1	IFSM	600	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case	RθJC	0.8	°C/W

note 1 Connect pins 2 & 3 together

# SDR950E thru SDR952E

PRELIMINARY

**SSDI**  
SOLID STATE DEVICES, INC

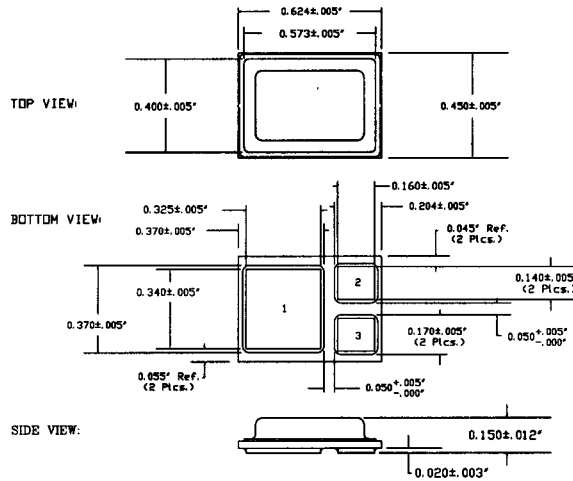
14849 Firestone Boulevard · La Mirada, CA 90638  
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

## ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
<b>Instantaneous Forward Voltage Drop</b> (IF = 25 Adc, TA=25°C, 300µs Pulse) (IF = 50 Adc, TA=25°C, 300µs Pulse)	<b>VF</b>	0.95 1.05	<b>Vdc</b>
<b>Instantaneous Forward Voltage Drop</b> (IF = 50 Adc, TA= 100°C, 300µs Pulse) (IF = 25 Adc, TA= - 55°C, 300µs Pulse)	<b>VF</b>	0.85 1.20	<b>Vdc</b>
<b>Reverse Leakage Current</b> (Rated VR, TA=25°C, 300µs pulse minimum)	<b>IR</b>	100	<b>µA</b>
<b>Reverse Leakage Current</b> (Rated VR, TA=100°C, 300µs pulse minimum)	<b>IR</b>	10	<b>mA</b>
<b>Junction Capacitance</b> (VR = 10 Vdc, TA=25°C, f= 1 MHz )	<b>CJ</b>	450	<b>pf</b>
<b>Reverse Recovery Time</b> (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	<b>trr</b>	35	<b>nsec</b>

## CASE OUTLINE: MILPACK

**PIN 1: CATHODE**  
**PIN 2: ANODE**  
**PIN 3: ANODE**



Note: Tolerances are ±.005" unless otherwise specified.

## TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

