

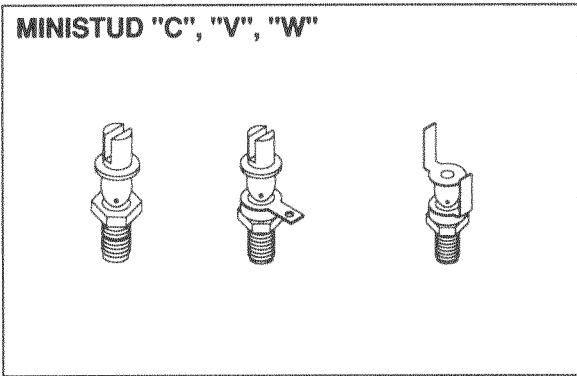
**SDR4405
 thru
 SDR4432**

Designer's Data Sheet

- FEATURES:**
- Hyper Fast Recovery: 40 nsec Maximum
 - PIV to 300 Volts
 - Mini 4-40 UNC Stud package
 - Hermetically Sealed
 - Void Free Construction
 - For High Efficiency Applications
 - Replaces 1N5811 types

 - TX, TXV and Space Level Screening available

**10 AMP
 50-300 VOLTS
 40 nsec
 HYPER FAST
 RECTIFIER**



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR4405(C), SDR4406(V), SDR4407(W) SDR4410(C), SDR4411(V), SDR4412(W) SDR4420(C), SDR4421(V), SDR4422(W) SDR4430(C), SDR4431(V), SDR4432(W)	VRRM VRWM VR	50 100 200 300	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	10	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	125	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	RθJC	7.5	°C/W

SDR4405 thru SDR4432

PRELIMINARY



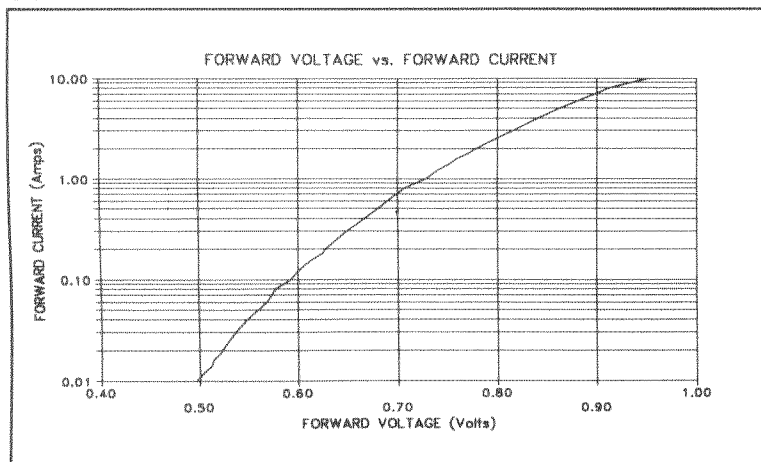
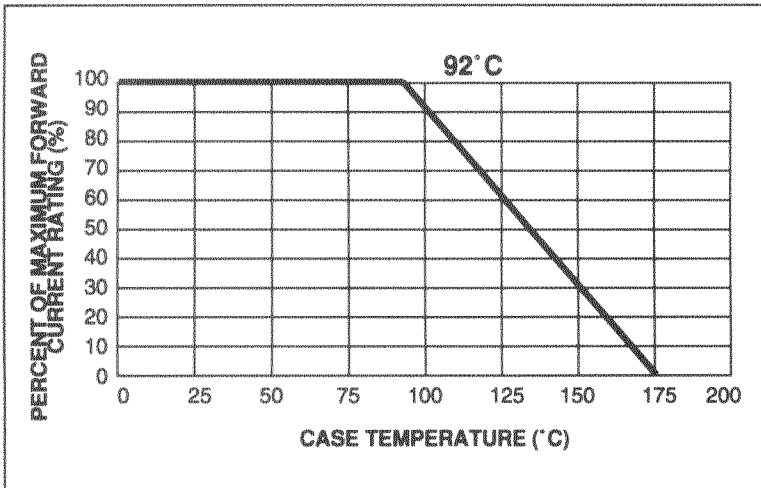
SOLID STATE DEVICES, INC

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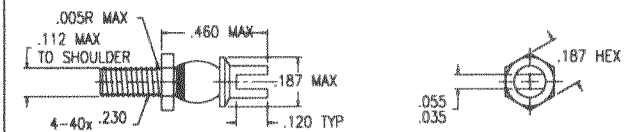
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA=25°C, 300µs Pulse)	VF	1.1	Vdc
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA= - 55°C, 300µs Pulse)	VF	1.2	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	20	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	1	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	100	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	t _{rr}	40	nsec

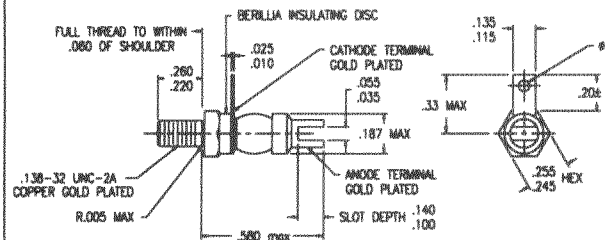
TYPICAL OPERATING CURVES TA=25°C Unless otherwise specified



MINISTUD "C"



MINISTUD "V"



MINISTUD "W"

