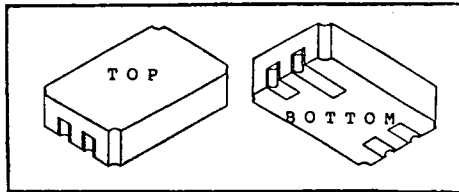


<p>SLC4-1B THROUGH SLC4-1M 1 AMP ULTRA FAST RECOVERY SURFACE MOUNT RECTIFIER 100 - 1,000 VOLTS</p>	<p>SSDI X00202</p>
	<p>14849 FIRESTONE BLVD. LA MIRADA, CA 90638 TEL: (213) 921-9660 FAX: (213) 921-2396</p>

CASE STYLE
 4-PIN L.C.C.



FEATURES

- ▶ LOW PROFILE SURFACE MOUNT PACKAGE
- ▶ EUTECTIC DIE ATTACH, 200°C OPERATING
- ▶ HERMETICALLY SEALED MILITARY PACKAGE
- ▶ ULTRA FAST RECOVERY 50-70 nsec MAX
- ▶ AVAILABLE SCREENING: TX, TXV, OR SPACE LEVEL

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	VRM(rep) VR		Volts
SLC4-1B		100	
SLC4-1D		200	
SLC4-1G		400	
SLC4-1J		600	
SLC4-1K		800	
SLC4-1M		1000	
RMS Reverse Voltage	Vr		Volts
SLC4-1B		70	
SLC4-1D		140	
SLC4-1G		280	
SLC4-1J		420	
SLC4-1K		560	
SLC4-1M		700	
Half Wave Rectified Forward Current Averaged Over Full Cycle (Resistive Load, 60Hz, Sine Wave, TC=55°C)	IO	1.0	Amp
Peak Repetitive Forward Current (TA=55°C, 8.3ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)	IFM(rep)	10	Amps
Peak Surge Current (TA=55°C, 8.3ms Pulse, Superimposed on Rated Current at Rated Voltage)	IFM(surge)	50	Amps
Operating and Storage Temperature	TJ, Tstg	-65 to +200	°C

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Thermal Resistance, Junction to Case	RθJC	35	°C/W

ELECTRICAL CHARACTERISTICS

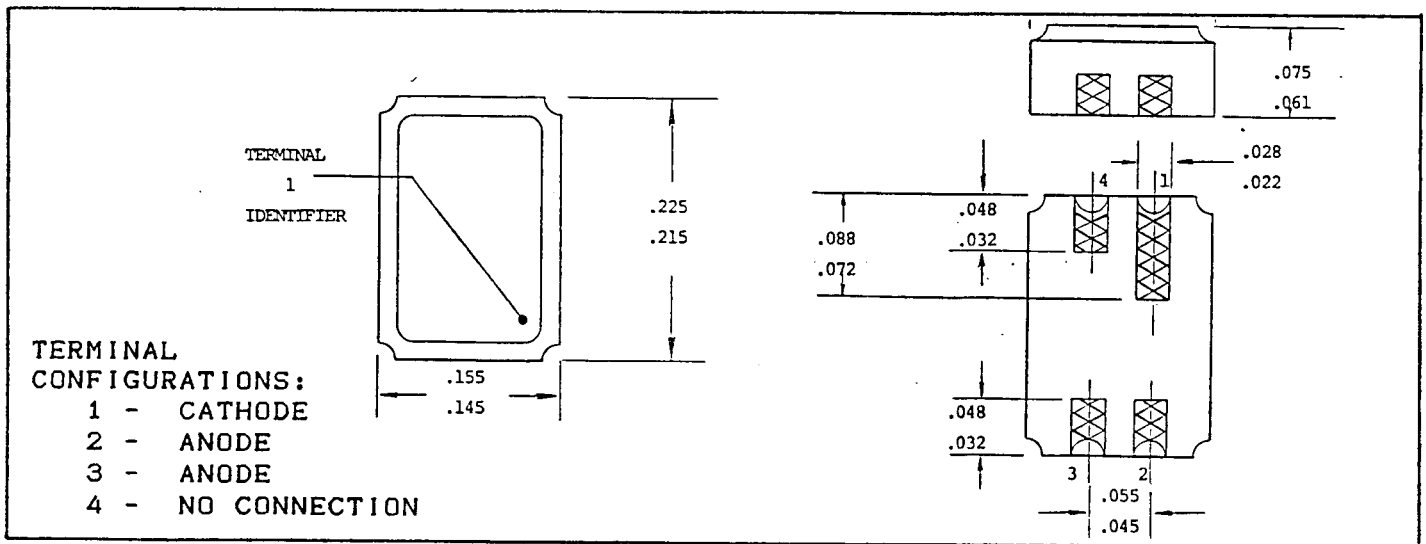
CHARACTERISTIC	SYMBOL	VALUE	UNITS
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle (Io Max., 60Hz Square Wave, TA = 55 °C) SLC4-1B - SLC4-1G SLC4-1J - SLC4-1M	VF(AV)	850 950	mVolts
Max Instantaneous Forward Voltage Drop * (IF=1.0A, 300us Pulse) SLC4-1B - SLC4-1G SLC4-1J - SLC4-1M	VF	1.7 1.9	Volts
Max Reverse Leakage Current, * (Rated VR, TA = 100 °C)	IR	200	μA
Max Reverse Leakage Current, (Rated VR, TC = 25 °C)	IR	5	μA
Max Junction Capacitance (VR = 10V, f = 1MHz)	CJ	30	pf

*) Pulse Test: Pulse Width = 300μs, Duty Cycle = 2 %.

REVERSE RECOVERY CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Reverse Recovery Time (IF=500mA, IR=1.0A, IRR=250mA)	trr	50	ns
Reverse Recovery Time (IF=500mA, IR=1.0A, IRR=250mA)	trr	70	ns

PHYSICAL DIMENSIONS



SSDI

SOLID STATE DEVICES, INC.

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