



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
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Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SD 01 20 _ _

L Screening ^{2/}

_ = Not Screened
TX = TX Level
TXV = TXV Level
S = S Level

L Package Type

SO8JL = 8 Pin SOIC J Leads
SO16JL = 16 Pin SOIC J Leads

SD0120

1 AMP, 200 VOLTS SCHOTTKY DIODE ARRAY

FEATURES:

- An array of 4 or 8 diodes
- High reliability hermetic ceramic packages
- Low capacitance
- Low leakage
- TX, TXV, and S level screening available – consult factory

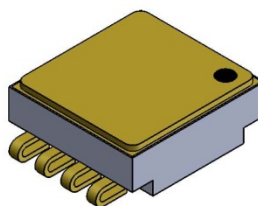
MAXIMUM RATINGS ^{3/}

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	Volts
Average Rectified Forward Current ^{4/} (Resistive Load, 60 Hz Sine Wave)	I_O	$T_A = 55^\circ C$ 1.00 $T_A = 100^\circ C$ 0.75	Amps
Peak Surge Current ^{5/} (8.3 ms Pulse, Half Sine Wave, Superimposed on I_O , Allow Junction to Reach Equilibrium Between Pulses, per leg)	I_{FSM}	25	Amps
Operating and Storage Temperature	T_{OP} & T_{stg}	-65 to +175	$^\circ C$
Maximum Thermal Resistance	$R_{\theta JC}$	13	$^\circ C/W$

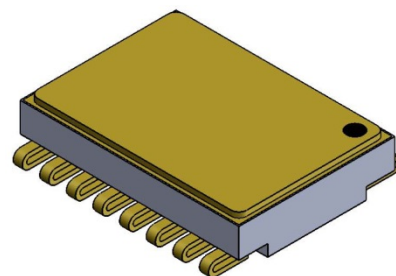
NOTES:

- 1/ For ordering information, price, operating curves, and availability- Contact factory.
2/ Screening based on MIL-PRF-19500. Screening flows available on request.
3/ Unless otherwise specified, all maximum ratings/electrical characteristics @25°C.
4/ Total current is package dissipation limited to 3A.
5/ Surge rating is limited by package wirebond.

8 Pin SOIC J Leads
(SO8JL)



16 Pin SOIC J Leads
(SO16JL)



NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: SH0095A

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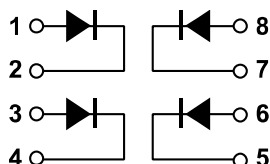
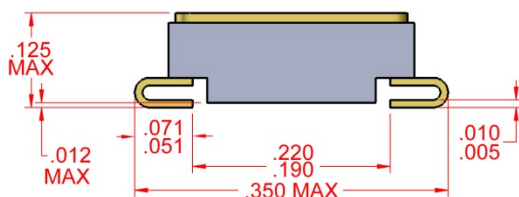
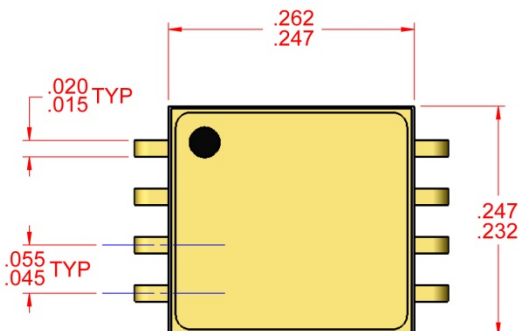
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SD0120

ELECTRICAL CHARACTERISTICS^{3/}

CHARACTERISTICS	SYMBOL	Typical	MAX	UNIT
Instantaneous Forward Voltage Drop ($I_F = 1 A_{DC}$, 300 μ sec min pulse) $T_A = 25^\circ C$ $T_A = 100^\circ C$	V_F	1.7 1.5	2.0 -	V
Reverse Leakage Current (Rated V_R , 300 μ sec min pulse) $T_A = 25^\circ C$ $T_A = 100^\circ C$	I_{R1} I_{R2}	0.3 25	1 50	μA
Junction Capacitance ($V_R = 5 V$)	C_j	10	15	pF
Reverse Recovery Time (Schottky) ($I_F = 0.5 A$, $I_R = 1.0 A$, $I_{RR} = 0.25 A$, $T_A = 25^\circ C$)	t_{rr}	20	35	nsec

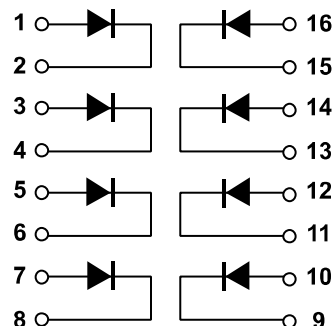
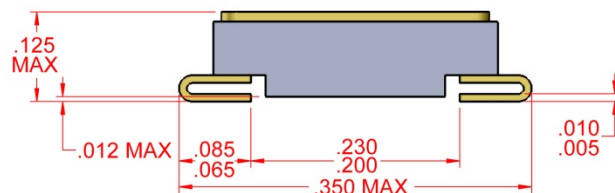
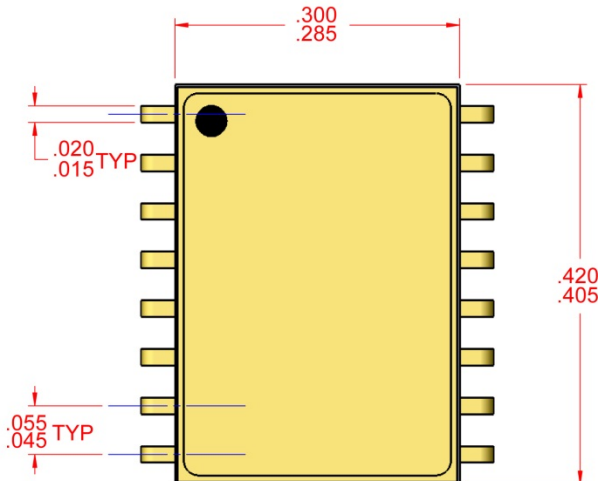
Case Outline: 8 PIN SOIC J Leads (SO8JL)



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Case Outline: 16 PIN SOIC J Leads (SO16JL)



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