



Solid State Devices, Inc.

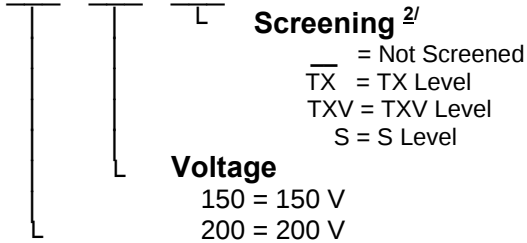
14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

Designer's Data Sheet

Part Number / Ordering Information^{1/}

SED40

SSR40



SED40KB200 and SSR40G200 SERIES

**40 AMPS
200 VOLTS
POWER SCHOTTKY DIODE**

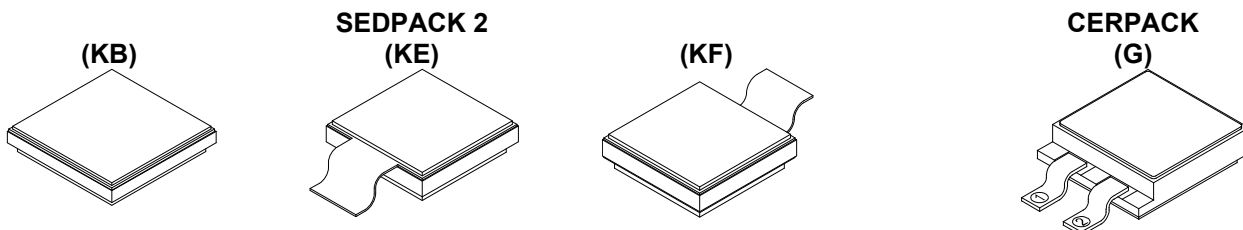
FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Surface Mount Package
- Guard Ring for Overvoltage Protection
- Eutectic Die Attach
- TX, TXV, and Space Level Screening Available. Contact Factory.

MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SED40__150, SSR40G150 SED40__200, SSR40G200	V_{RRM} V_{RWM} V_R	150 200	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A = 100^\circ\text{C}$)		I_O	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)		I_{FSM}	500	Amps
Operating and Storage Temperature		T_{OP} & T_{STG}	-55 to +150	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case	KE, KB, G KF	$R_{\theta JC}$	1.5 3.5	$^\circ\text{C/W}$

NOTES:

- 1/ For ordering information, price, and availability, contact factory.
 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
 3/ Unless otherwise specified, all electrical characteristics @25°C.



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

DATA SHEET #: SH0064B

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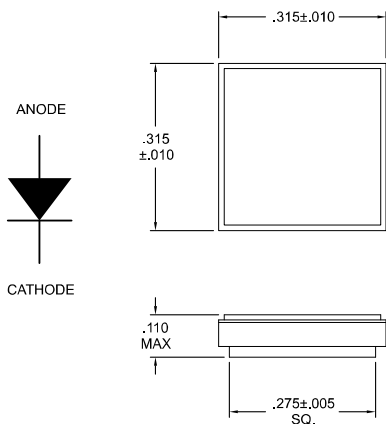
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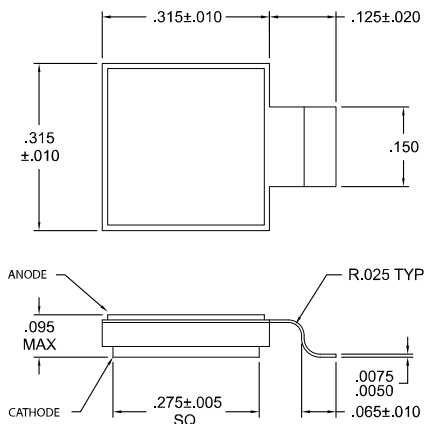
SED40KB200 and SSR40G200 SERIES

ELECTRICAL CHARACTERISTICS	Symbol	-55	25	100	125	150	Unit
Instantaneous Forward Voltage Drop typical ($I_F = 5$ Amps, 300 μ sec Pulse) maximum	V_F	750 -	670 750	560 -	520 600	480 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 15$ Amps, 300 μ sec Pulse) maximum	V_F	970 -	765 840	655 -	615 700	580 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 30$ Amps, 300 μ sec Pulse) maximum	V_F	1280 -	830 900	725 -	690 750	655 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 40$ Amps, 300 μ sec Pulse) maximum	V_F	1470 -	865 950	760 -	725 810	695 -	mVolts
Reverse Leakage Current typical (Rated V_R , 300 μ sec pulse minimum) maximum	I_R	0.0001 -	0.0002 0.01	0.1 -	0.6 10	2.5 -	mA
Junction Capacitance typical ($V_R = 10 V_{DC}$, $T_A = 25^\circ C$, $f = 1$ MHz) maximum	C_J	-	400 500	-	-	-	pF

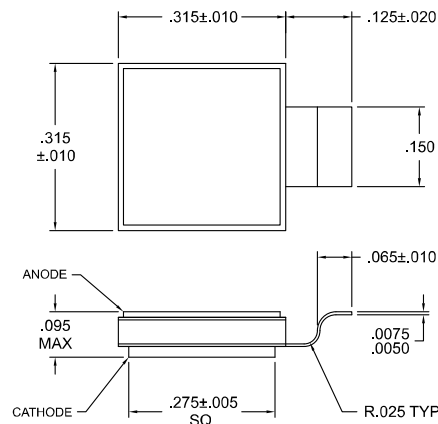
CASE OUTLINE: SED40KB200



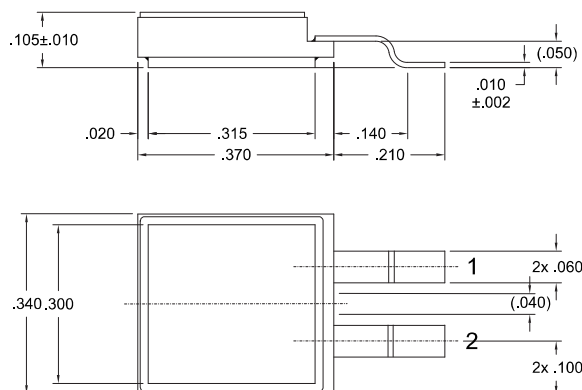
CASE OUTLINE: SED40KE200



CASE OUTLINE: SED40KF200



CASE OUTLINE: SSR40G200



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