



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

SED75KB30 SED75KE30

Designer's Data Sheet

Part Number / Ordering Information ^{1/}

SED75 _ 30 _

L Screening^{2/} = None
TX = TX Level
TXV = TXV Level
S = S Level

L Configuration

KB = without lead
KE = with lead

**75 AMP
30 VOLT
SCHOTTKY RECTIFIER**

FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Power Surface Mount Package
- Guard Ring for Overvoltage Protection
- TX, TXV, and Space Level Screening Available^{2/}

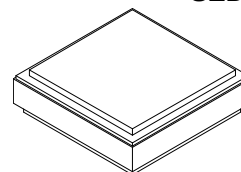
MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage		V_{RRM} V_{RWM} V_R	30	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A = 100^\circ\text{C}$)		I_O	75	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, Superimposed on I_O , Allow Junction to Reach Equilibrium between Pulses, $T_A = 25^\circ\text{C}$)		I_{FSM}	600	Amps
Operating and Storage Temperature		$T_{OP} \ \& \ T_{stg}$	-55 to +150	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case		$R_{\theta JC}$	0.7	$^\circ\text{C/W}$

Notes:

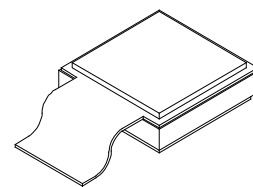
^{1/} For Ordering Information, Price, Operating Curves, and Availability –
Contact Factory.

^{2/} Screening to MIL-PRF-19500.

SEDPACK 2



KB Series



KE Series

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

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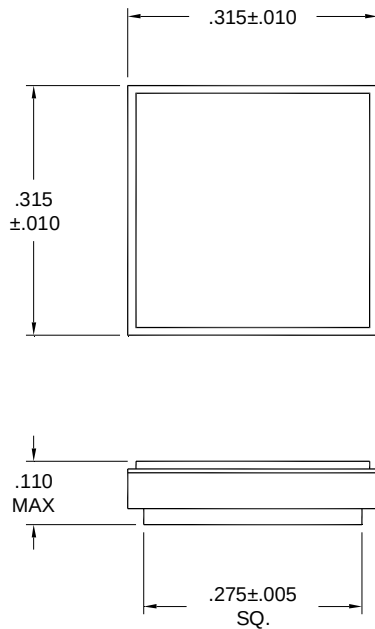
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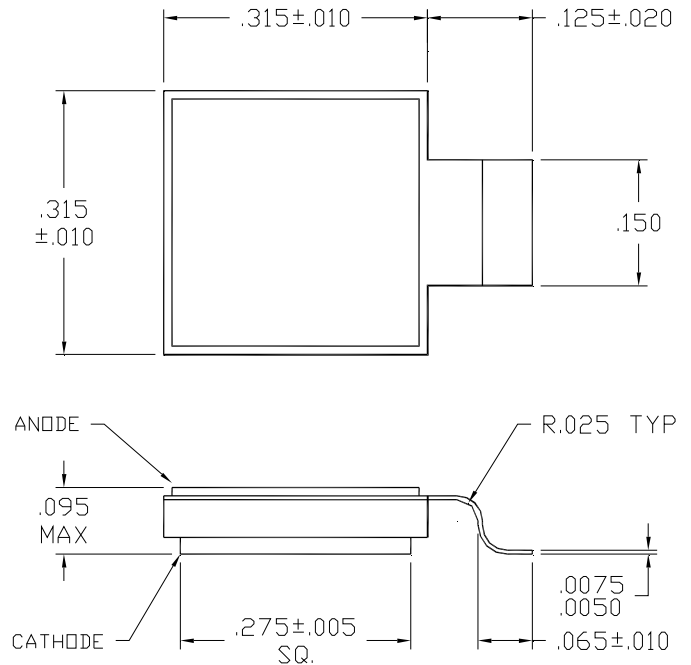
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ELECTRICAL CHARACTERISTICS	Symbol	Maximum	Unit
Instantaneous Forward Voltage Drop ($T_A = 25^\circ\text{C}$, 300 μsec Pulse)	$I_F = 50\text{ A}_{\text{DC}}$ V_{F1}	0.52	V_{DC}
	$I_F = 75\text{ A}_{\text{DC}}$ V_{F2}	0.60	
Instantaneous Forward Voltage Drop ($I_F = 50\text{ A}_{\text{DC}}$, $T_A = +125^\circ\text{C}$, 300 μsec Pulse)	V_{F3}	0.45	V_{DC}
Reverse Leakage Current (Rated V_R , 300 μsec pulse minimum)	$T_A = 25^\circ\text{C}$ I_{R1}	2	mA
	$T_A = 125^\circ\text{C}$ I_{R2}	450	
Junction Capacitance ($V_R = 5\text{ V}_{\text{DC}}$, $T_A = 25^\circ\text{C}$, $f = 1\text{ MHz}$)	C_J	4600	pF

CASE OUTLINE: SED75KB30



CASE OUTLINE: SED75KE30



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