

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

SED75KB30 SED75KE30

75 AMP 30 VOLT SCHOTTKY RECTIFIER

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

FEATURES:

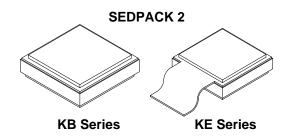
- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Power Surface Mount Package
- Guard Ring for Overvoltage Protection
- TX, TXV, and Space Level Screening Available^{2/}

MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage		$egin{array}{c} oldsymbol{V_{RMM}} \ oldsymbol{V_{R}} \end{array}$	30	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, T _A = 100°C)		Io	75	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, Superimposed on I_O , Allow Junction to Reach Equilibrium between Pulses, $T_A = 25^{\circ}C$)		I _{FSM}	600	Amps
Operating and Storage Temperature		T _{OP} & T _{stg}	-55 to +150	°C
Maximum Thermal Resistance Junction to Case		R _{θJC}	0.7	°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.





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

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

