



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638-5223
 Phone: (562) 404-4474 * Fax: (562) 404-1773
 ssdi@ssdi-power.com * www.ssdi-power.com

**SED10HB100, SED10HE100
and
SED10HF100**

**10 A / 100 V
Schottky Rectifier**

Designer's Data Sheet

Part Number / Ordering Information ^{1/}

SED10

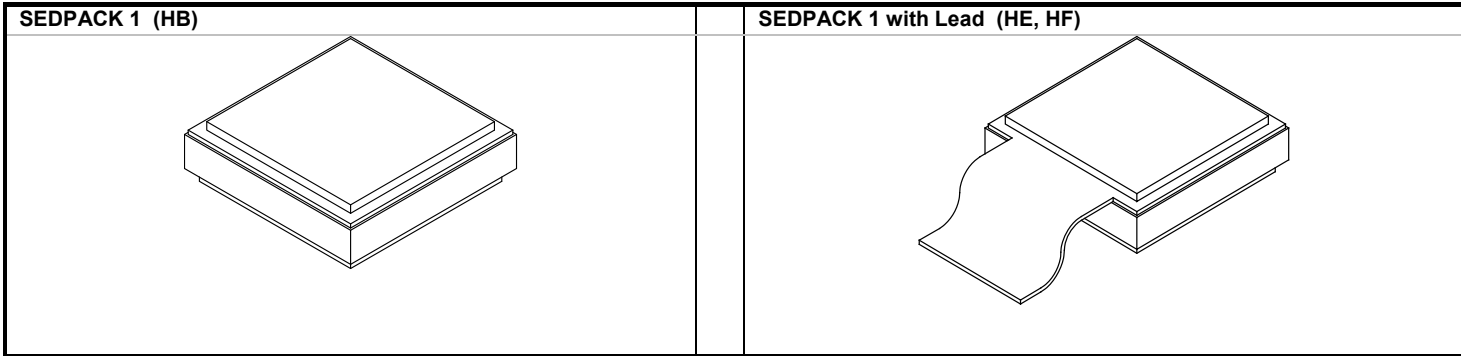
Screening ^{2/} = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

Voltage 100 = 100 V

Package
 HB = Sedpack 1
 HE = Sedpack 1 with Lead
 HF = Sedpack 1 with Lead, Reverse Polarity

- FEATURES:**
- Low Reverse Leakage
 - Low Forward Voltage Drop
 - Hermetically Sealed Power Surface Mount Package
 - Guard Ring for Overvoltage Protection
 - Eutectic Die Attach
 - 150°C Operating Temperature
 - TX, TXV, and Space Level Screening Available ^{2/}. Consult Factory.

MAXIMUM RATINGS ^{3/}		Symbol	Value	Units
Peak Repetitive and Peak Reverse Voltage		V_{RRM} V_R	100	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_C = 100^\circ\text{C}$)		I_O	10	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}	175	Amps
Operating & Storage Temperature		T_{OP} & T_{stg}	-55 to +175	°C
Maximum Thermal Resistance (Junction to Case)	SED10HB100 SED10HE100 SED10HF100	$R_{\theta JC}$	1.25 1.25 3.00	°C/W



NOTES:
^{1/} For Ordering Information, Price, Operating Curves, and Availability Contact Factory.
^{2/} Screened to MIL-PRF-19500.
^{3/} Unless Otherwise Specified, All Electrical Characteristics @25°C.



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ELECTRICAL CHARACTERISTICS ^{3/}	Symbol	Maximum	Units	
Instantaneous Forward Voltage Drop ($T_A=25^\circ\text{C}$, 300 - 500 μsec pulse)	$I_F = 10 A_{DC}$	V_{F1}	0.75	V_{DC}
Instantaneous Forward Voltage Drop ($T_A=+125^\circ\text{C}$, 300 - 500 μsec pulse)	$I_F = 10 A_{DC}$	V_{F2}	0.63	V_{DC}
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μsec pulse minimum)		I_{R1}	1.0	mA
Reverse Leakage Current (Rated V_R , $T_A = +125^\circ\text{C}$, 300 μsec pulse minimum)		I_{R2}	10	mA
Junction Capacitance ($V_R = 10V$, $f = 1\text{MHz}$, $T_A = 25^\circ\text{C}$)		C_J	600	pF

NOTES: 1/ For Ordering Information, Price, Operating Curves, and Availability Contact Factory. 2/ Screened to MIL-PRF-19500. 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C Available Part Numbers: SED10HB100, SED10HE100, and SED10HF100	PIN ASSIGNMENT			
	Package	TOP	BOTTOM	LEAD
	Sedpack (HB)	Anode	Cathode	---
	Sedpack with Lead (HE)	Anode	Cathode	Anode
	Sedpack with Lead (HF)	Cathode	Anode	Cathode

