

SDB14HS

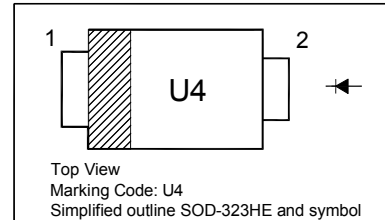
Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 V

Forward Current - 1 A

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

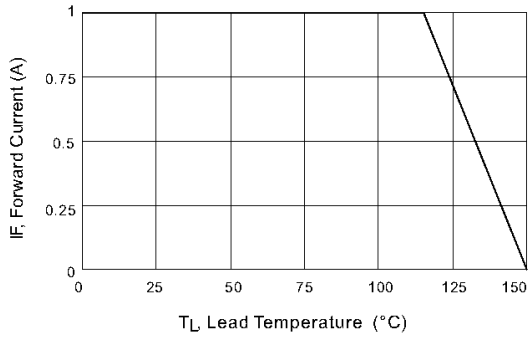
Parameter	Symbols	Value	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	$I_{F(AV)}$	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	25	A
Maximum Forward Voltage at $I_F = 0.7$ A	V_F	0.52	V
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	100	μA
Typical Thermal Resistance, Junction to Ambient ¹⁾	$R_{\theta JA}$	220	$^{\circ}C/W$
Typical Thermal Resistance, Junction to Lead ¹⁾	$R_{\theta JL}$	50	$^{\circ}C/W$
Operating and Storage Temperature Range	T_j, T_{stg}	- 40 to + 150	$^{\circ}C$

¹⁾ Mounted on 15 mm X 50 mm pad layout.

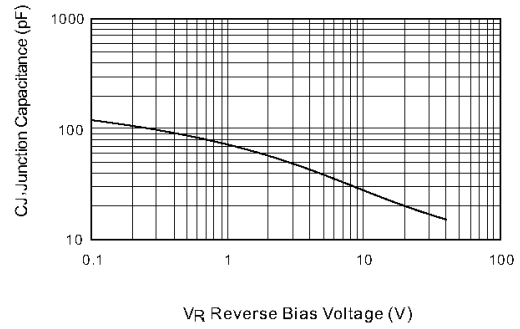
TOP DYNAMIC



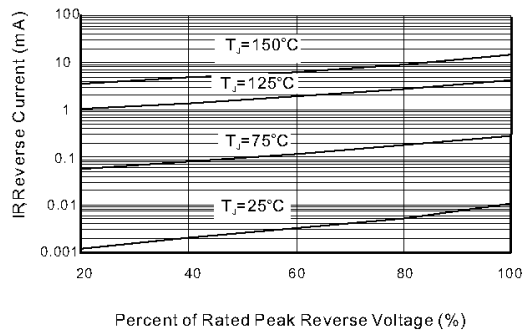
SDB14HS



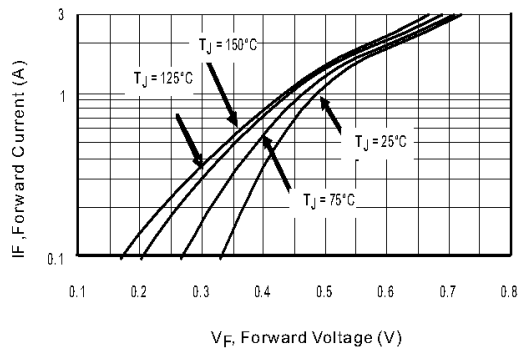
Forward Current Derating Curve



Typical Junction Capacitance



Typical Reverse Characteristics



Typical Forward Characteristics

TOP DYNAMIC

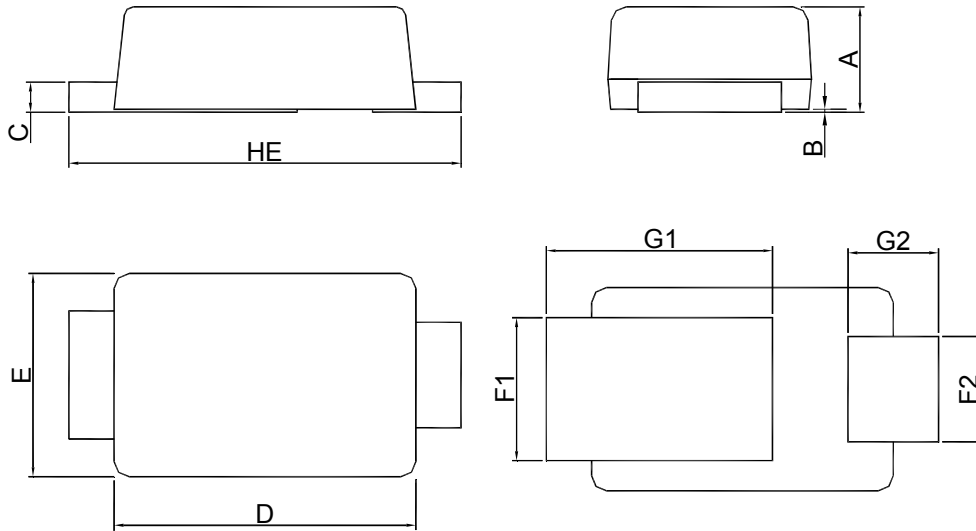


SDB14HS

PACKAGE OUTLINE

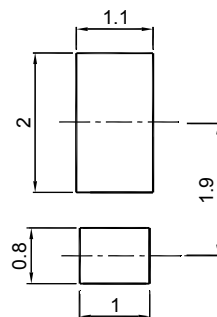
Plastic surface mounted package; 2 leads

SOD-323HE



UNIT	A	B	C	D	E	F1	F2	G1	G2	H _E
mm	0.7	0.02	0.2	2	1.35	0.95	0.7	1.5	0.6	2.6
	0.5	0	0.1	1.8	1.15	0.75	0.5	1.3	0.4	2.4

RECOMMENDED SOLDERING FOOTPRINT



SOD-323HE

Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-323HE	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

TOP DYNAMIC

