SDB3480HC

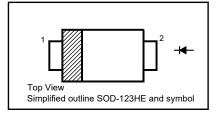
Surface Mount Schottky Barrier Rectifier Reverse Voltage - 40 V Forward Current - 3 A

Features

- For surface mounted applications
- · Low power loss, high efficiency
- · High forward surge current capability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical Characteristics

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

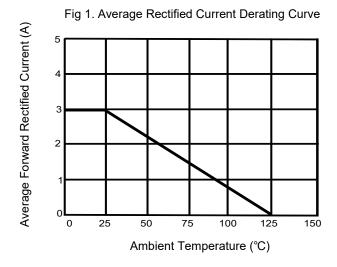
Parameter	Symbols	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3	Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	80	А
Operating Junction Temperature Range	Tj	- 55 to + 125	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at $T_a = 25$ °C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$	$V_{(BR)R}$	40	ı	V
Forward Voltage at I _F = 3 A	V_{F}	ı	0.55	٧
Reverse Current at $V_R = 40 \text{ V}$ at $V_R = 40 \text{ V}$, $T_J = 100^{\circ}\text{C}$	I _R	-	0.05 20	mA



Electrical Characteristics Curves

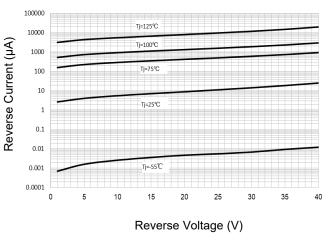


10 Tj=75°C Tj=125°C Tj=25°C Tj=25°C Tj=55°C Tj=55°C Tj=55°C Tj=55°C Tj=55°C

Forward Current (A)

Fig 2. Forward Characteristics Curve

Fig 3. Reverse Characteristics Curve



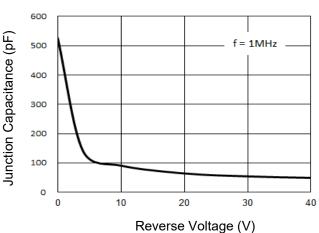


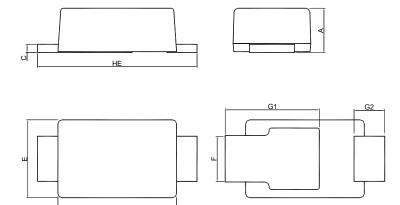
Fig 4. Junction Capacitance

SDB3480HC

PACKAGE OUTLINE

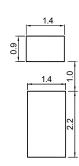
Plastic surface mounted package; 2 leads

SOD-123HE



UNIT	Α	С	D	E	F	G1	G2	H _E
100.100	1.08	0.2	2.9	1.9	1.1	2.3	0.75	3.9
mm	0.88	0.1	2.6	1.7	0.8	1.9	0.55	3.5

Recommended Soldering Footprint



Packing information

Package	Tape Width	Pitch		Reel Size		Der Deel Deelving Quentity
	(mm)	mm	inch	mm	inch	Per Reel Packing Quantity
SOD-123HE	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" DT1 " = Part No.

" III " = Cathode line

Font type: Arial



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