



SCHOTTKY BARRIER RECTIFIER

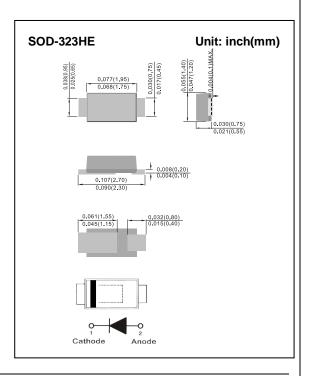
Voltage 40 V Current

Features

- Low forward voltage drop, low reverse current
- High Efficiency
- Low thermal resistance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: SOD-323HE Molded Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.0002 ounces, 0.005 grams



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage	Vrrm	40	V		
Maximum rms voltage	VRMS	28	V		
Maximum dc blocking voltage		VR	40	٧	
Maximum average forward rectified current	lf(AV)	1.5	Α		
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	22	А	
	(Note 2)	$R_{ heta JC}$	35		
Typical thermal resistance	(Note 2)	$R_{ heta JL}$	30	°C/W	
	(Note 1)	$R_{ heta JA}$	300		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

1.5 A

Note: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area





Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	T _J =25°C	40	-	-	V
Instantaneous forward voltage	V _F	I _F =0.7A	TJ=25°C	-	0.49	-	V
		I _F =1.5A		-	0.56	0.62	
		I _F =0.7A	T _J =125°C	-	0.40	-	V
		I _F =1.5A		-	0.51	-	
Reverse current	I _R	V _R =32V	T _J =25°C	-	0.8	-	μА
		V _R =40V	T _J =25°C	-	-	50	μА
			T _J =125°C	-	0.8	-	mA





TYPICAL CHARACTERISTIC CURVES

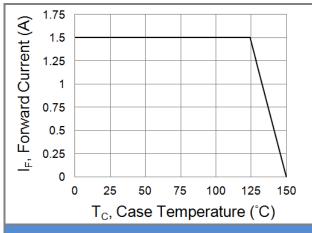


Fig.1 Forward Current Derating Curve

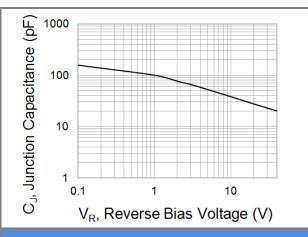


Fig.2 Typical Junction Capacitance

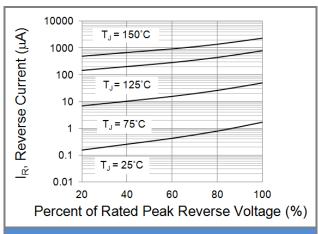


Fig.3 Typical Reverse Characteristics

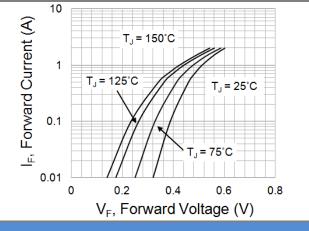


Fig.4 Typical Forward Characteristics

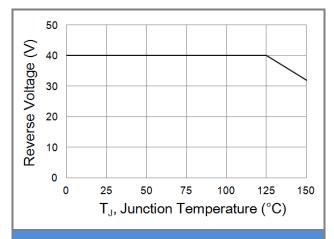


Fig.5 Operating Temperature Derating Curve

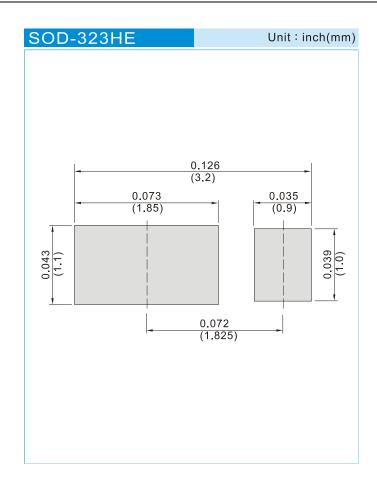




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SB1A40CH_R1_00001	SOD-323HE	5K pcs / 7" reel	4HE	Halogen free
SB1A40CH_R2_00001	SOD-323HE	12K pcs / 13" reel	4HE	Halogen free

Mounting Pad Layout







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