

SB3H60AH SCHOTTKY BARRIER RECTIFIER Voltage 60 V Current 3 A SOD-123HE Unit: inch(mm) 0 046(1 15) 0 033(0 85) Features 0.114(2.90) • Low forward voltage drop, low reverse current High efficiency 0.040(1.00) • Low thermal resistance Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU • directive) + 0.012(0.30) + 0.007(0.20) • Green molding compound as per IEC61249 Std. . (Halogen Free) 0.154(3.90) 0.137(3.50) Mechanical Data 0.091(2.30) 0.048(1.20) Case: SOD-123HE Molded Plastic • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 • Weight: 0.0006 ounces, 0.0184 grams Cathod Anode

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

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage	Vrrm	60	V		
Maximum rms voltage	Vrms	42	V		
Maximum dc blocking voltage	Vr	60	V		
Maximum average forward rectified current	IF(AV)	3	А		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	80	А	
Typical junction capacitance (VR=4V,f=1MHz)		CJ	150	pF	
	(Note 2)	Rejc	16	°C/W	
Typical thermal resistance	(Note 2)	Rejl	12		
	(Note 1)	Reja	185		
Operating junction temperature range		ТJ	-55 to +175	٥C	
Storage temperature range		Тѕтс	-55 to +175	°C	

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

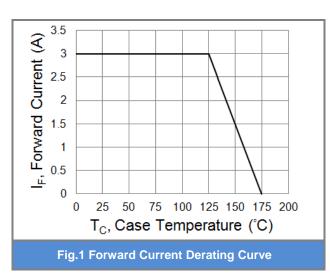


Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	TJ=25°C	60	-	-	V
Instantaneous forward voltage	VF	I _F =1A	TJ=25°C	-	0.54	-	V
		I⊧=3A		-	-	0.7	
		I _F =1A	TJ=125°C	-	0.44	-	V
		I⊧=3A		-	0.56	-	
Reverse current	IR	V _R =48V	TJ=25°C	-	100	-	nA
		V _R =60V	TJ=25°C	-	-	5	μA
			TJ=125°C	-	-	2	mA



TYPICAL CHARACTERISTIC CURVES



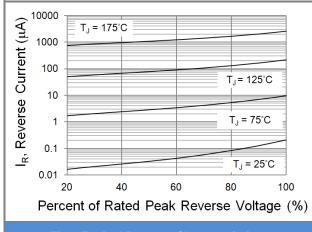
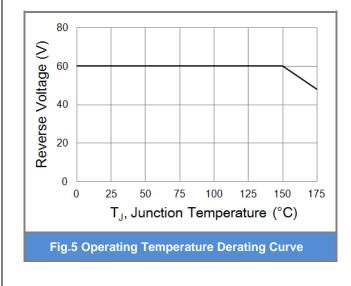
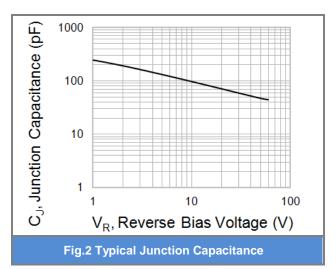


Fig.3 Typical Reverse Characteristics





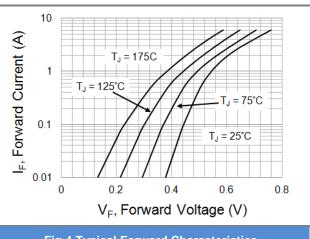


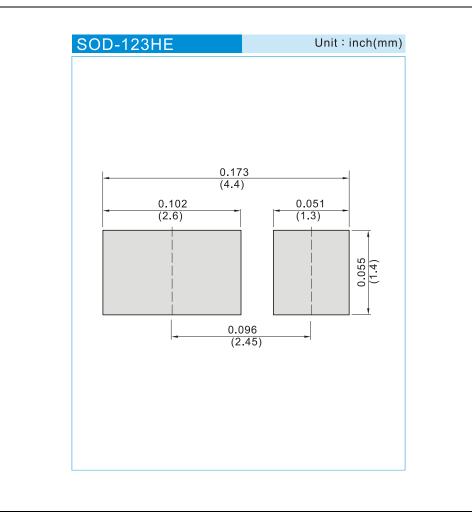
Fig.4 Typical Forward Characteristics



Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
SB3H60AH	SOD-123HE	3K pcs / 7" reel	ER	
SB3H60AH	SOD-123HE	10K pcs / 13" reel	ER	

Mounting Pad Layout





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