



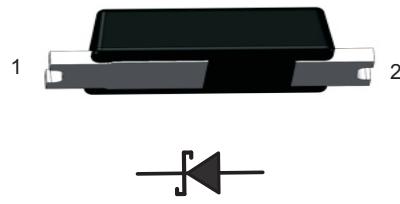
SS34AHE THRU SS320AHE

Reverse Voltage - 40 to 200 Volts Forward Current - 3.0 Ampere

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- ◆ Metal silicon junction,majority carrier conduction
- ◆ For surface mounted applications
- Metal silicon junction,majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



Top View
Simplified outline SMAHE and symbol

Mechanical Data

- ◆ Case : JEDEC SMAHE Molded plastic body
- ◆ Terminals : Solderable per MIL-STD-750,Method 2026
- ◆ Weight : 0.0010 ounce, 0.030grams

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Mechanical Data

Ratings at 25 C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS34AHE	SS36AHE	SS310AHE	SS315AHE	SS320AHE	UNITS
Marking Code		MDD SS34	MDD SS36	MDD SS310	MDD SS315	MDD SS320	
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	60	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}			3.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I _{FSM}			80			A
Maximum instantaneous forward voltage at 3.0A	V _F	0.55	0.70	0.85	0.95		V
Maximum DC reverse current T _A =25°C at rated DCblocking voltage T _A =100°C	I _R	0.5 10		0.3 5.0			mA
Typical junction capacitance (NOTE 1)	C _J	180		150			pF
Typical thermal resistance (NOTE 2)	R _{θJA}			100			°C/W
Operating junction temperature range	T _J			-55 to +150			°C
Storage temperature range	T _{STG}			-55 to +150			°C

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 3.81X3.81cm copper pad areas



SS34AHE THRU SS320AHE

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Ampere

Typical Characteristics

Fig.1 Forward Current Derating Curve

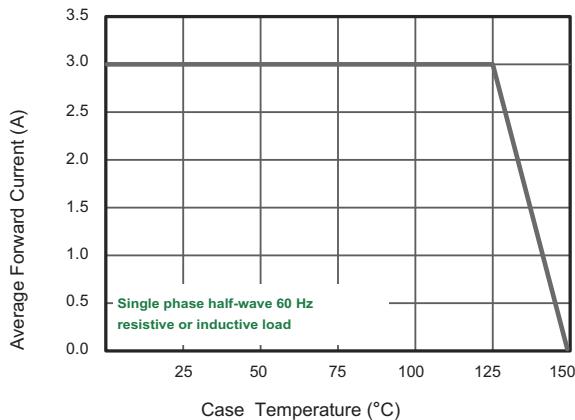


Fig.2 Typical Reverse Characteristics

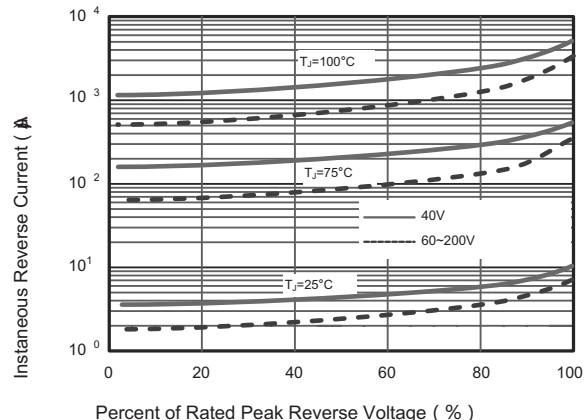


Fig.3 Typical Forward Characteristic

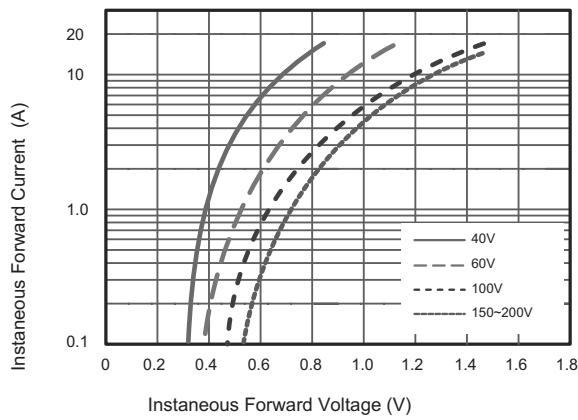


Fig.4 Typical Junction Capacitance

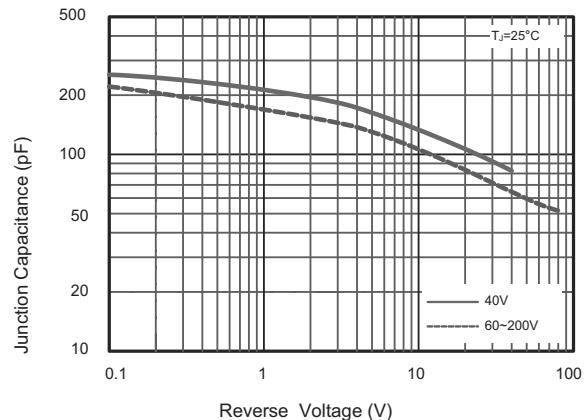
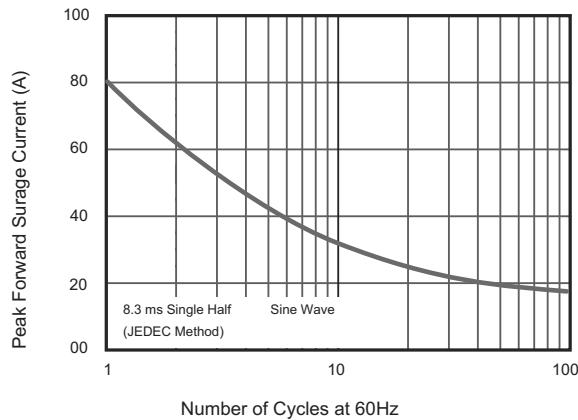
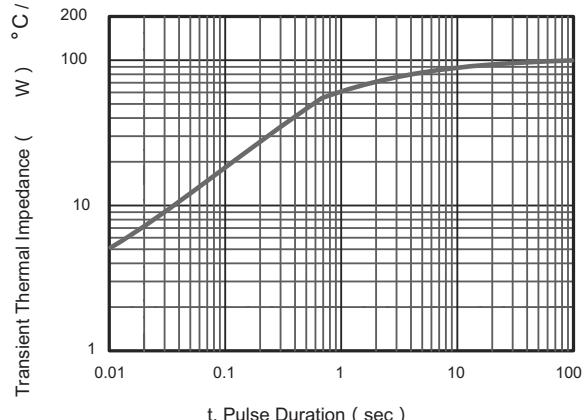


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.

Fig.6- Typical Transient Thermal Impedance

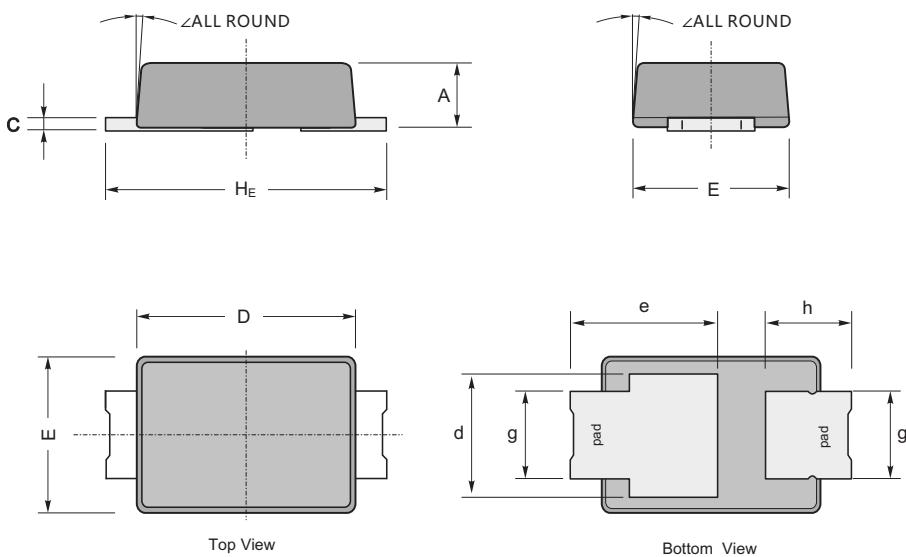




SS3AHE THRU SS320AHE

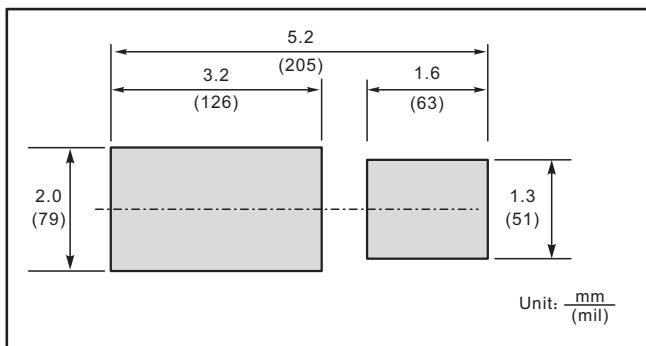
Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Ampere

Packing information



UNIT		A	C	D	E	H _E	d	e	g	h	<
mm	max	1.20	0.35	4.10	2.70	5.20	1.90	3.05	1.50	1.2	12°
	min	0.90	0.20	3.70	2.30	4.80	1.70	2.85	1.30	1.0	
mil	max	47	13.8	161	106	205	75	120	59	47	12°
	min	35	7.9	145	90	189	67	112	51	39	

The recommended mounting pad size



Important Notice and Disclaimer

Microdiode Electronics (Jiangsu) reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Microdiode Electronics (Jiangsu) makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Microdiode Electronics (Jiangsu) assume any liability for application assistance or customer product design. Microdiode Electronics (Jiangsu) does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of Microdiode Electronics (Jiangsu).

Microdiode Electronics (Jiangsu) products are not authorized for use as critical components in life support devices or systems without express written approval of Microdiode Electronics (Jiangsu).

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Microdiode Electronics manufacturer:

Other Similar products are found below :

[70HFR40](#) [FR105 R0](#) [RL252-TP](#) [1N5397](#) [JANTX1N5634A](#) [1N4002G](#) [1N4005-TR](#) [JANS1N6640US](#) [481235F](#) [RRE02VS6SGTR](#) [067907F](#)
[MS306](#) [US2JFL-TP](#) [A1N5404G-G](#) [CRS12\(T5L,TEMQ\)](#) [ACGRB207-HF](#) [CLH07\(TE16L,Q\)](#) [CLH03\(TE16L,Q\)](#) [ACGRC307-HF](#)
[ACEFC304-HF](#) [DZ-1380](#) [NTE6356](#) [NTE6359](#) [JAN1N5555](#) [85HFR60](#) [40HFR60](#) [70HF120](#) [85HFR80](#) [D126A45C](#) [SCF7500](#) [SCHJ22.5K](#)
[SM100](#) [SCPA2](#) [SDHD5K](#) [ACGRA4001-HF](#) [D1821SH45T PR](#) [D1251S45T](#) [NTE6358](#) [NTE5850](#) [NTE5819](#) [NTE5837](#) [NTE5892](#) [NTE5900](#)
[NTE5911](#) [NTE5915](#) [NTE5921](#) [NTE6104](#) [NTE6105](#) [NTE6154](#) [NTE6158](#)