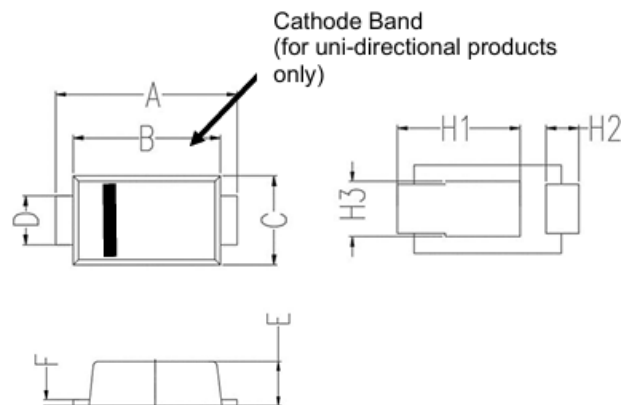


## SMD Schottky Rectifier Diode

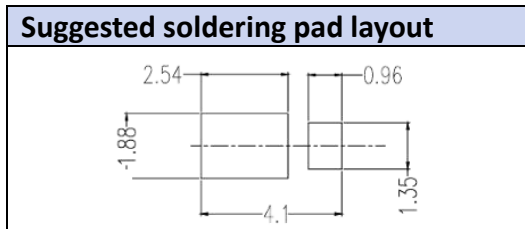
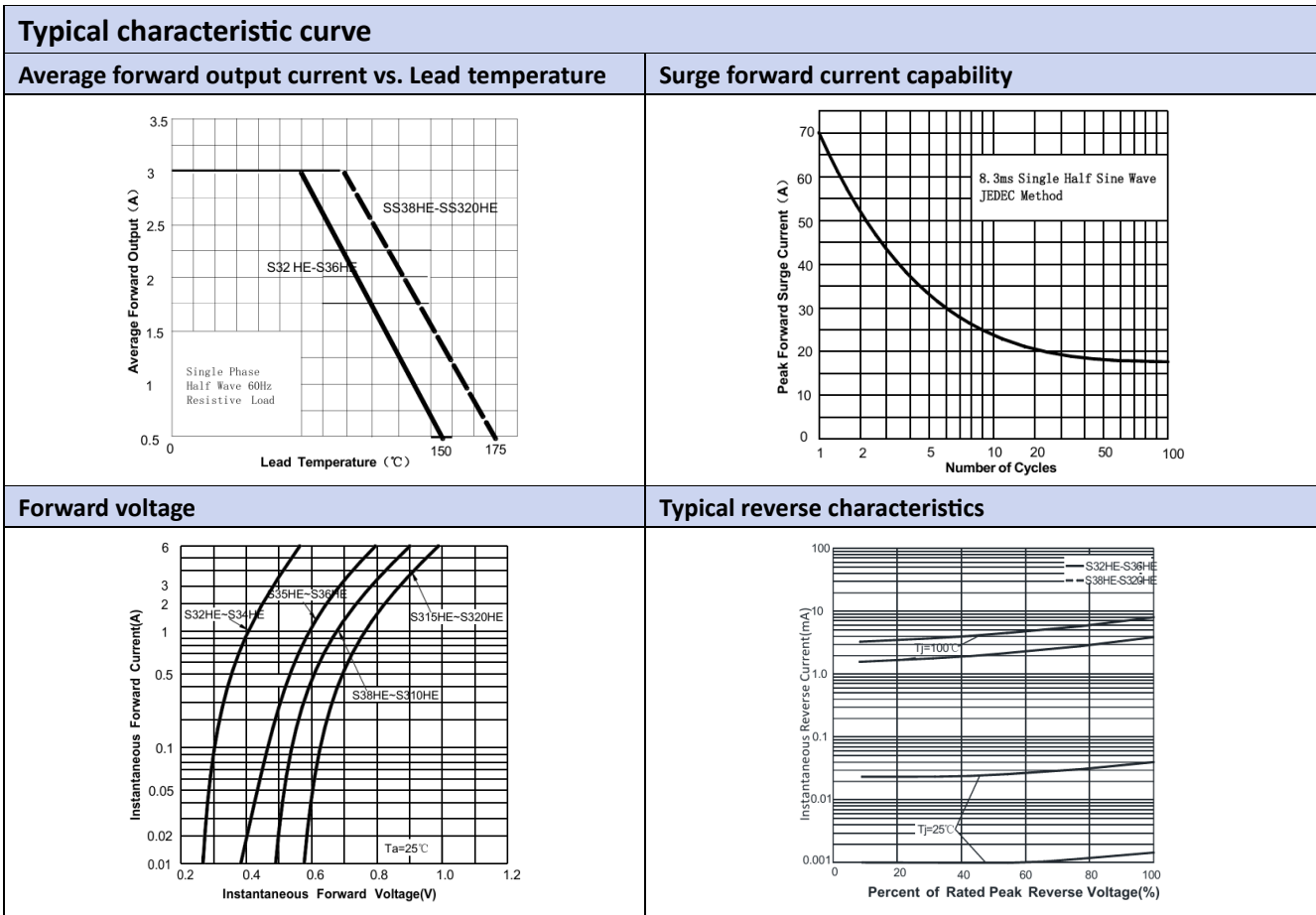
Primary characteristics		
Parameter	Value	Unit
Repetitive peak reverse voltage	20 ~ 200	V
Average rectified output current	3.0	A

### Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020
- Molding compound meets UL 94 V-0 flammability rating, RoHS compliant, halogen free
- Terminals: tin plated leads, solderable per J-STD-002 at max. temp 260°C

Case dimensions									
									
SOD-123HE									
Unit mm	A	B	C	D	E	F	H1	H2	H3
MIN	3.50	2.90	1.70	0.85	0.88	0.10	2.30	0.43	0.92
MAX	3.90	3.10	2.00	1.05	1.08	0.25	2.70	0.83	1.32

Absolute maximum ratings and general electrical characteristics (T <sub>a</sub> = 25°C unless otherwise specified)											
Parameter	Symbol	Value									Unit
		S32HE	S33HE	S34HE	S35HE	S36HE	S38HE	S310HE	S315HE	S320HE	
Repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Average rectified output current	I <sub>O</sub>	3.0									A
Surge non-repetitive forward current at 60Hz half-sine wave, 1 cycle	I <sub>FSM</sub>	70									
Instantaneous forward voltage drop per diode at 3.0A	V <sub>F</sub>	0.55		0.70		0.85		0.95		V	
DC reverse current at rated DC blocking voltage per diode at V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25°C	0.5				0.1				mA	
	T <sub>a</sub> =100°C	10				5					
Typical junction capacitance at 1MHz, 4Vdc	C <sub>j</sub>	165									pF
Typical thermal resistance <sup>1)</sup>	R <sub>θJA</sub>	70									°C/W
	R <sub>θJL</sub>	25									
Storage temperature	T <sub>STG</sub>	-55 ~ 150									°C
Operating junction and storage temperature range	T <sub>j</sub>	-55 ~ 150				-55 ~ 175					
Note: 1) Thermal resistance between junction and ambient and between junction and lead mounted on PCB with 3mm*3mm copper pad areas.											



Ordering information		
<b>Part Number</b>	<b>Package</b>	<b>Shipping Quantity</b>
S32HE~S320HE	SOD-123HE	10 000 pcs / reel

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