

# Surface Mounted Schottky Barrier Rectifiers

SMB		<ul> <li>Features</li> <li>Low forward voltage drop</li> <li>High current capability</li> <li>Moisture sensitivity: level 1, per J-STD-020</li> <li>AEC-Q101 qualified</li> <li>High temperature soldering guaranteed: 260°C/10 seconds</li> <li>Halogen-free according to IEC 61249-2-21 definition</li> </ul>						
Primary characteristics		Appli	cations					
I <sub>F(AV)</sub>		2A	For us	se in low voltage, high frequency inverters,				rs,
V <sub>RRM</sub>	70V t	o 100V	free wheeling, and polarity protection applications					
I <sub>FSM</sub>	5	60A						
I <sub>RM</sub>	0.0	3mA	Mech	anical da	ata			
V <sub>FM</sub> at I <sub>F</sub> =2A	0.	79V	• SMB					
	15	0.00	<ul> <li>Epoxy meets UL 94 V-0 flammability rating</li> </ul>					
T <sub>J</sub> max.	15	0°C		minals: Tin arity: As m	plated lead arked.	ds.		
TJ max. Maximum rating (Ta			• Pola	arity: As m	arked.			
			• Pola	arity: As m oted)	arked.	1B	SS2B	Unit
Maximum rating (Ta	a=25°Cu		Pola	arity: As m	arked.		SS2B 100	- Unit
Maximum rating (Ta Parameter	a=25°Cu		Pola     Wise no     Sym	arity: As m oted) SS27	arked. SS28	<b>1B</b> SS29		
Maximum rating (Ta Parameter Max. repetitive peak reverse	a=25°Cu		Pola     VRRM	oted) SS27 70	arked. SN SS28 80	<b>1B</b> SS29 90	100	V
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage	a=25°Cu e voltage		Pola     Wise no     Sym     VRRM     VRMS	arity: As m oted) SS27 70 49	arked. SS28 80 56	<b>NB</b> SS29 90 63 90	100 70	V V
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage	a=25°Cu e voltage	nless other	Pola     Wise no     Sym     VRRM     VRMS     VDC     IF(AV)     .	arity: As m oted) SS27 70 49	arked. SS28 80 56 80 2	AB SS29 90 63 90	100 70	V V V A
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave	a=25°Cu e voltage ent d surge curr	nless other	Pola     Wise no     Sym     VRRM     VRMS     VDC     IF(AV)     IFSM	arity: As m oted) SS27 70 49	arked. SS28 80 56 80 2 5	<b>NB</b> SS29 90 63 90 2 0	100 70	V V V A A
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward	a=25°Cu e voltage ent d surge curr e d voltage dr	nless other rent op per diode	Pola     Wise no     Sym     VRRM     VRMS     VDC     IF(AV)     .	arity: As m oted) SS27 70 49	arked. SS28 80 56 80 2 5 0.1	<b>AB</b> SS29 90 63 90 2 0 79	100 70	V V V A
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse	e voltage ent d surge curr d voltage dr current	nless other rent op per diode Ta=25 °C	Pola     Wise no     Sym     VRRM     VRMS     VDC     IF(AV)     IFSM	arity: As m oted) SS27 70 49	SS28 80 56 80 2 5 0.1 0.1	<b>AB</b> SS29 90 63 90 2 0 79 03	100 70	V V V A A
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage	e voltage e voltage ent d surge curr d voltage dr e current e	nless other rent op per diode	Pola     Vise no     Sym     VRMS     VRMS     VDC     IF(AV)     IFSM     VFM     IRM	arity: As m oted) SS27 70 49	arked. SS28 80 56 80 2 5 0.1 0.1 2	<b>AB</b> SS29 90 63 90 2 0 79 03 2	100 70	V V V A A A V mA
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat	e voltage e voltage ent d surge curr d voltage dr e current e	nless other rent op per diode Ta=25 °C	Pola     Vise no     Sym     VRMS     VRMS     VDC     IF(AV)     IFSM     VFM     IRM     TJ	arity: As m oted) SS27 70 49	SS28 80 56 80 5 0.1 0.1 2 -55 ~	AB SS29 90 63 90 2 0 79 03 2 +150	100 70	V V A A A V mA °C
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage	e voltage e voltage ent d surge curr d voltage dr e current e	nless other rent op per diode Ta=25 °C	Pola     Vise no     Sym     VRMS     VRMS     VDC     IF(AV)     IFSM     VFM     IRM     TJ     TSTG	arity: As m oted) SS27 70 49	SS28 80 56 80 2 5 0.1 0.0 2 5 5 0.1 0.0 2 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5	<b>AB</b> SS29 90 63 90 2 0 79 03 2 +150 +150	100 70	V V V A A A V mA
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat	e voltage ent d surge curr d voltage dr e current e ture	nless other rent op per diode Ta=25 °C	Pola     Vise no     Sym     VRMS     VRMS     VDC     IF(AV)     IFSM     VFM     IRM     TJ	arity: As m oted) SS27 70 49	SS28 80 56 80 5 0.1 0.1 2 -55 ~	AB SS29 90 63 90 2 0 79 03 2 +150 +150 5	100 70	V V A A A V mA °C

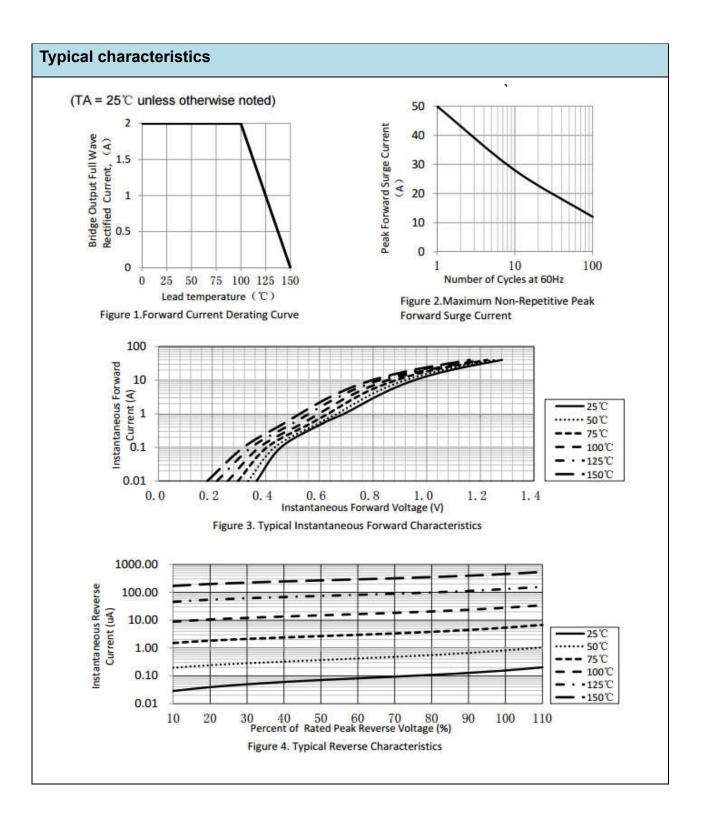
#### Notes:

1 The thermal resistance from junction to lead, ambient and cover.



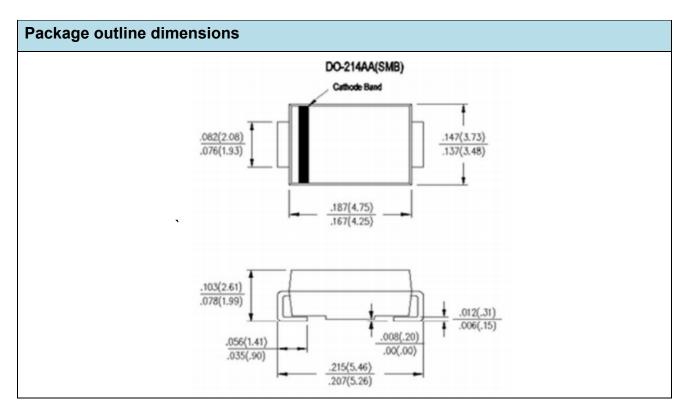
### **Surface Mounted Schottky Barrier Rectifiers**

Orderinginformation (Example)							
PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE			
SS27							





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