



3.0A Surface Mount Schottky Barrier Rectifiers -20V- 200V

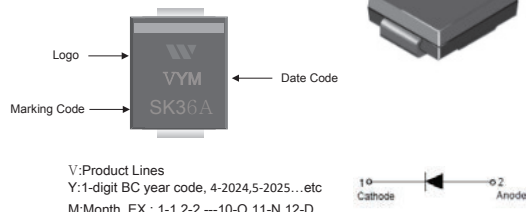
PRIMARY CHARACTERISTICS

V_{RRM}	20V~200V
$I_{F(AV)}$	3.0A
V_F	0.55V,0.70V,0.85V,0.95V
$T_{J,Max}$	125°C,150°C

SMA(DO-214AC)

PACKAGE

- Body Marking Example
Marking :
- Ex :SK36A



FEATURES

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

MECHANICAL DATA

- Case : Molded plastic,SMA(DO-214AC)
- Lead: Pure tin plated, lead free
- Epoxy : UL94V-0 rated flame retardant

Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

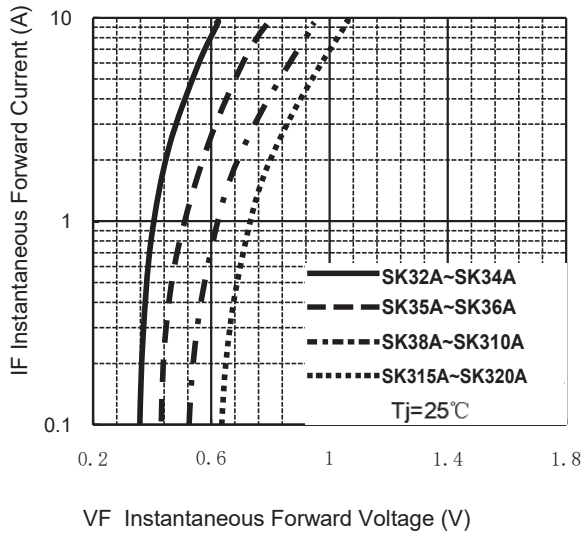
Parameter	Symbols	SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	SK315A	SK320A	Unit
Marking		SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	SK315A	SK320A	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	3.0									A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	100									A
@IF=3.0A Maximum forward voltage	V _F	0.55			0.70		0.85		0.95		V
@V _{DC} TJ= 25°C Maximum reverse current TJ= 100°C	I _R	0.2					0.01				mA
		10					5				
Typical thermal resistance (Note 1)	R _{θJA} R _{θJL}	85 25									°C/W
VR=4.0V,f=1MHz Type junction capacitance	C _J	500					300				pF
Operating junction	T _J	-55 --- +125					-55 --- +150				°C
Storage temperature rang	T _{STG}	-55 --- +150									°C

Note:

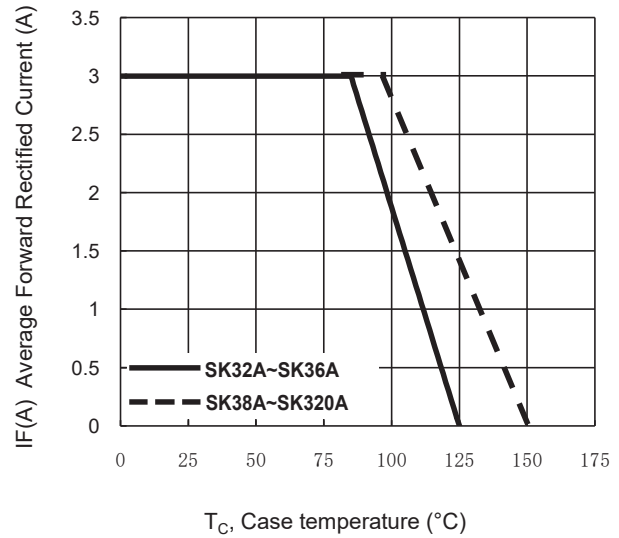
1) Thermal resistance from junction to ambient , PCB mounted.



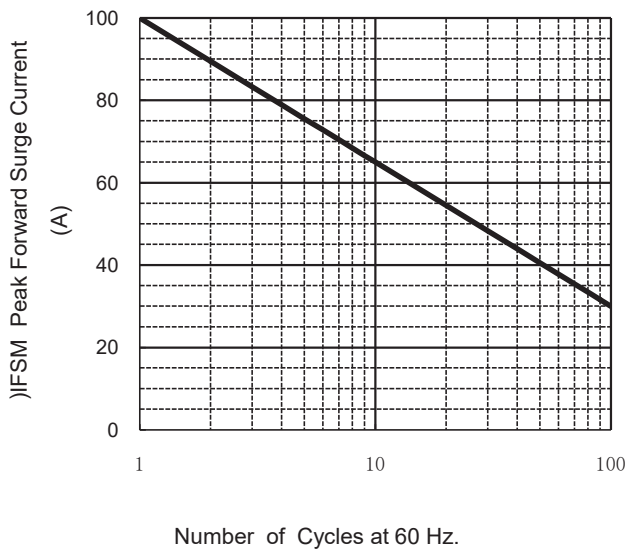
TYPICAL FORWARD CHARACTERISTIC



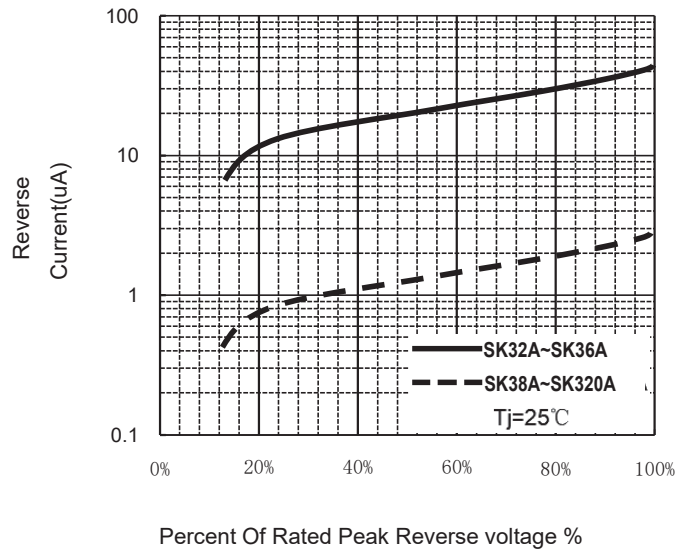
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



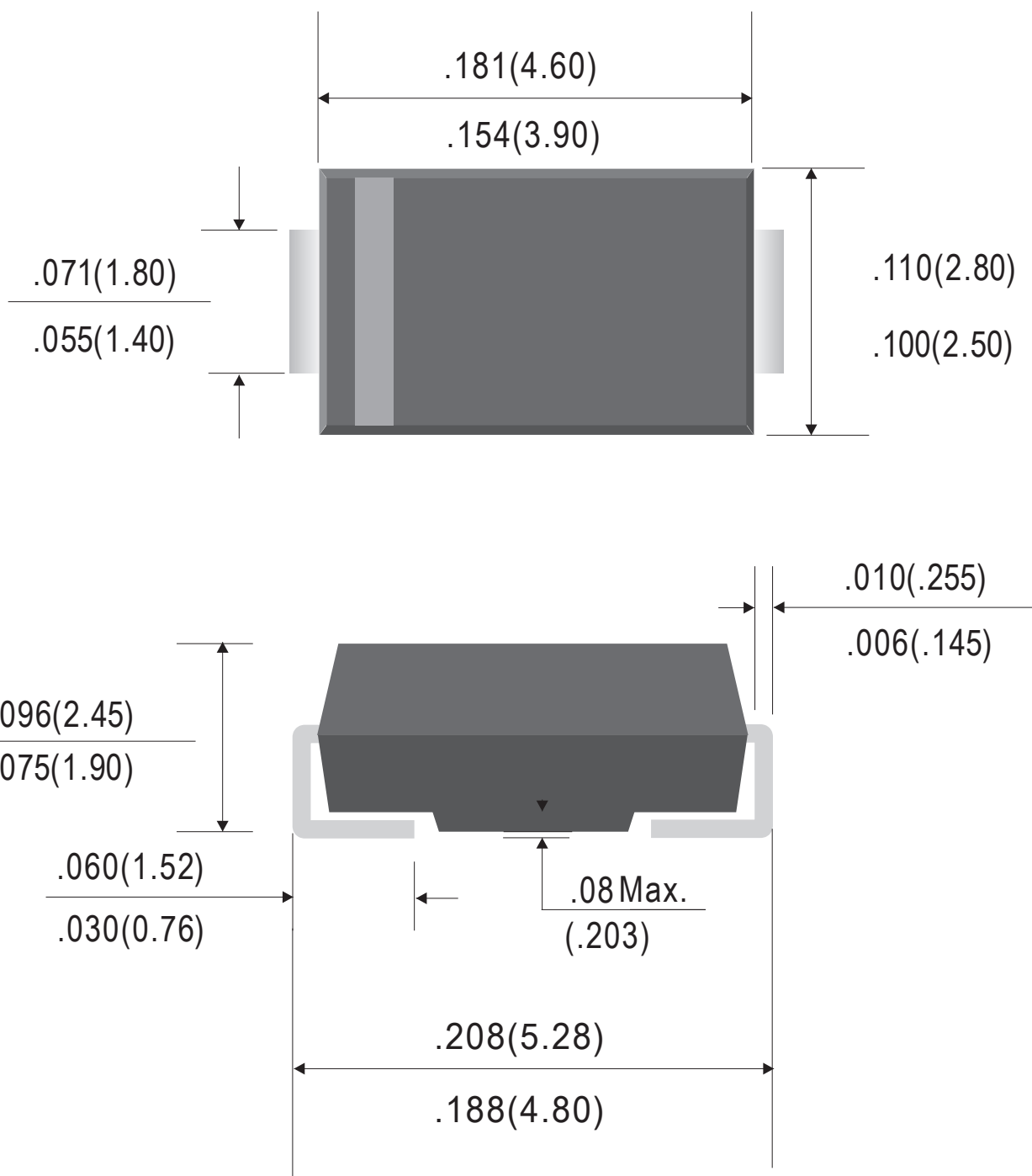
Typical Reverse Characteristics





Outline Drawing

SMA(DO-214AC)(g)



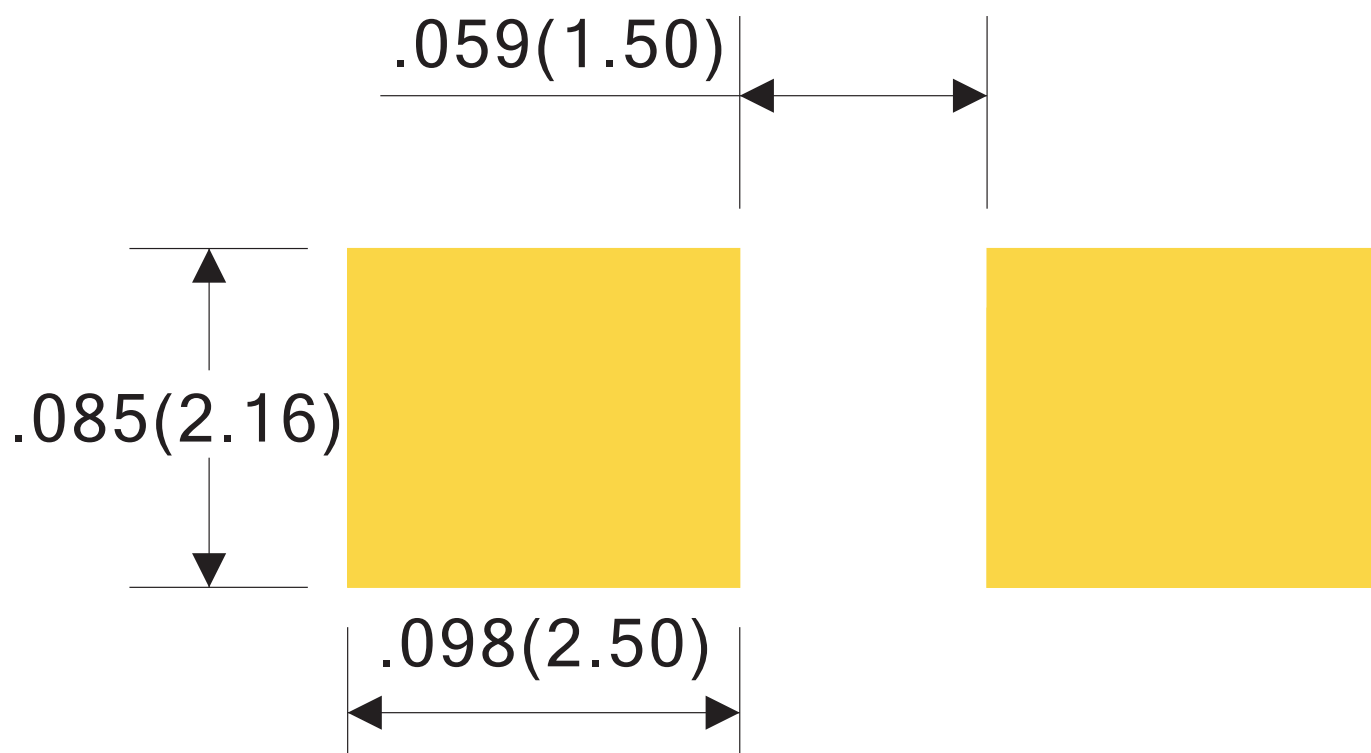
Dimensions in inches and (millimeters)

Rev.A



Suggested Soldering Pad Layout

SMA



Dimensions in inches and (millimeters)

Rev.A



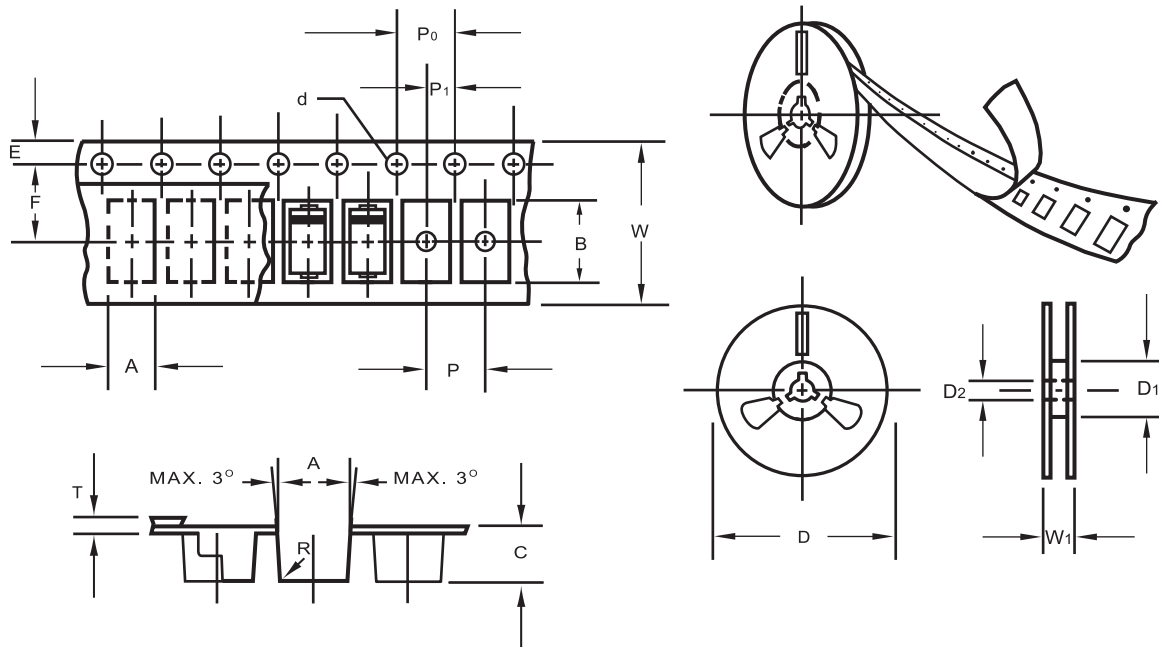
3.0A Surface Mount Schottky Barrier Rectifiers -20V- 200V

Reel Taping Sepecification - Surface Mount Device

Reel Packing

PACKAGE	PER REEL EA	REEL DIA (m/m)	BOX SIZE (m/m)	PER BOX EA	CARTION (m/m)	PER CARTION EA	GROSS WEIGHT (Kg)
SMA	5,000	330	340*340*40	10,000	355*360*350	80,000	15.0
SMB	3,000	330	340*340*40	6,000	355*360*350	48,000	13.6
SMC	3,000	330	340*340*40	6,000	355*360*350	48,000	18.5

Note. Packing tape color : It's contains colorless & Black.



ITEM	SYMBOL	DO214AC (SMA) mm(inch)	DO214AA (SMB) mm(inch)	DO214AB (SMC) mm(inch)
Carrier width	A	3.0 ± 0.1 (.122 ± .004)	3.65 ± 0.1 (.148 ± .004)	6.0 ± 0.1 (.240 ± .004)
Carrier length	B	5.4 ± 0.1 (.213 ± .004)	5.69 ± 0.1 (.224 ± .004)	8.30 ± 0.1 (.330 ± .004)
Carrier depth	C	2.4 ± 0.1 (.098 ± .004)	2.67 ± 0.1 (.105 ± .004)	2.5 ± 0.1 (.100 ± .004)
Sprocket hole	d	1.5 ± 0.1 (.059 ± .004)	1.5 ± 0.1 (.059 ± .004)	1.5 ± 0.1 (.059 ± .004)
Reel outside diameter	D	178 ± 2.0 (7.0 ± .79)	178 ± 2.0 (7.0 ± .79)	178 ± 2.0 (7.0 ± .79)
Reel inner diameter	D1	8.0 ± 0.2 (3.15 ± .008)	8.0 ± 0.2 (3.15 ± .008)	8.0 ± 0.2 (3.15 ± .008)
Feed hole diameter	D2	13 ± 0.5 (.152 ± .020)	13 ± 0.5 (.152 ± .020)	13 ± 0.5 (.152 ± .020)
Sprocket hole position	E	1.5 ± 0.1 (.059 ± .004)	1.5 ± 0.1 (.059 ± .004)	1.5 ± 0.1 (.059 ± .004)
Punch hole position	F	5.65 ± 0.05 (.222 ± .002)	5.65 ± 0.05 (.222 ± .002)	7.65 ± 0.05 (.301 ± .002)
Punch hole pitch	P	4.0 ± 0.1 (.157 ± .004)	8.0 ± 0.1 (.315 ± .004)	8.0 ± 0.1 (.315 ± .004)
Sprocket hole pitch	P0	4.0 ± 0.1 (.157 ± .004)	4.0 ± 0.1 (.157 ± .004)	4.0 ± 0.1 (.157 ± .004)
Embossment center	P1	2.0 ± 0.1 (.79 ± .004)	2.0 ± 0.1 (.79 ± .004)	4.0 ± 0.1 (.157 ± .004)
Totall tape thickness	T	0.30 ± .05 (.012 ± .002)	0.6 MAX.	0.6 MAX.
Tape width	W	12.0 ± 0.2 (.472 ± .008)	12.0 ± 0.2 (.472 ± .008)	16.0 ± 0.2 (.630 ± .008)
Reel with	W1	16.8 ± 2.0 (.661 ± .079)	16.8 ± 2.0 (.661 ± .079)	24.0 ± 2.0 (.945 ± .079)

NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.



Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
Part Number -T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	Refer to Page1	Tape&Reel: 5 Kpcs/Reel

Note:

- (1) Packing code, Tape & Reel Packing
- (2) Packing code suffix "G" for RoHS product : Packing code Suffix "H" for halogen free product
All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals
- (3) Willas brand abbreviation, Label Type does not display
- (4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device

Disclaimer

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.