

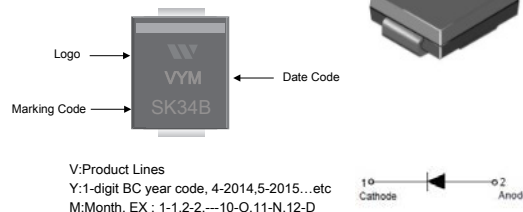
PRIMARY CHARACTERISTICS

V_{RRM}	20V~200V
I_O	3.0A
V_F	0.55V ,0.70V ,0.85V 0.87V ,0.90V
$T_{J,Max}$	125°C ,150°C

SMB(DO-214AA)

PACKAGE

- Body Marking Example
Marking :SK32B~SK320B
Ex :SK34B



V:Product Lines
Y:1-digit BC year code, 4-2014,5-2015...etc
M:Month, EX : 1-1,2-2,...10-O,11-N,12-D

FEATURES

- Ideal for surface mounted applications
- Low switching noise
- Low forward voltage drop
- High current capability
- High switching capability
- High reliability
- High surge capability
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic, SMB(DO-214AA)
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive of inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SK32B	SK33B	SK34B	SK35B	SK36B	SK38B	SK310B	SK315B	SK320B	UNIT
Marking Code		SK32B	SK33B	SK34B	SK35B	SK36B	SK38B	SK310B	SK315B	SK320B	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	I _O	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80.0									Amps
Typical Thermal Resistance (Note 2)	R _{ΘJA} /R _{ΘJC}	70 / 25									°C/W
Typical Junction Capacitance (Note 1)	C _J	180			150		110		100	80	pF
Operating Temperature Range	T _J	-55 to +125							-55 to +150		°C
Storage Temperature Range	T _{STG}	-55 to +150									°C

CHARACTERISTICS		SYMBOL	SK32B	SK33B	SK34B	SK35B	SK36B	SK38B	SK310B	SK315B	SK320B	UNIT	
Maximum Forward Voltage at 3.0A DC		V _F	0.55			0.70		0.85		0.87	0.90	Volts	
Maximum Average Reverse Current at Rated DC Blocking Voltage	@T _a =25°C	I _R	0.5										mAmps
	@T _a =100°C		20										

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient , From Junction to Case on P.C.B. mounted 0.55*0.55"(14*14mm) copper pad areas.



RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

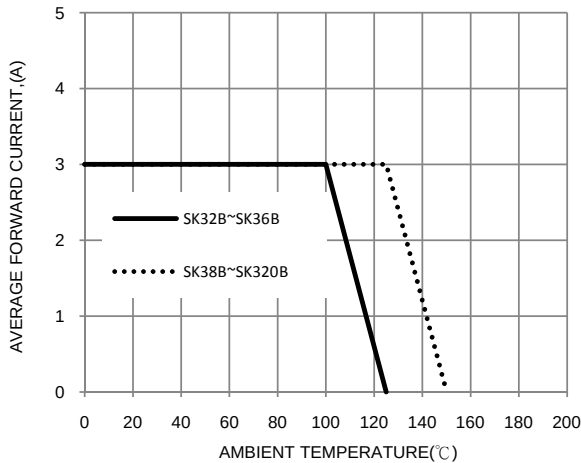


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

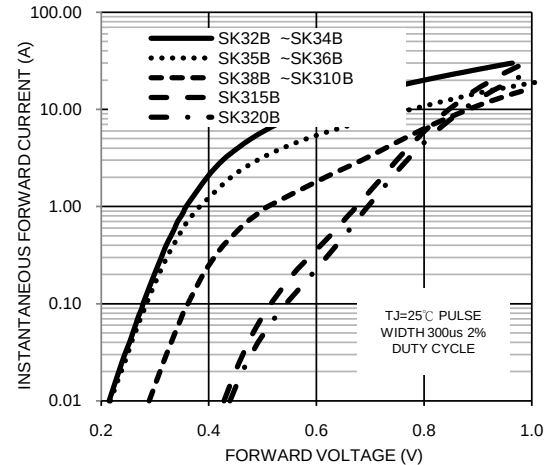


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

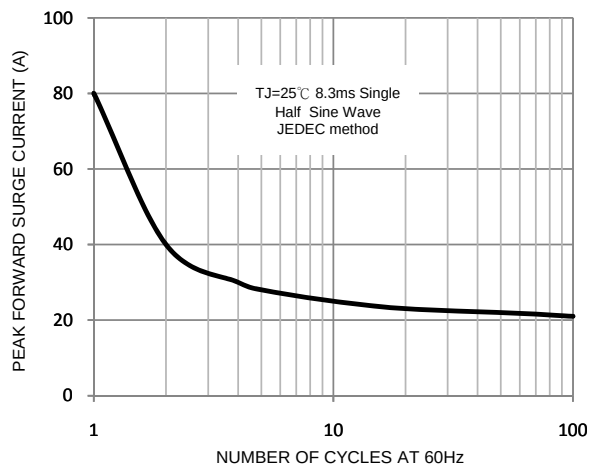


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

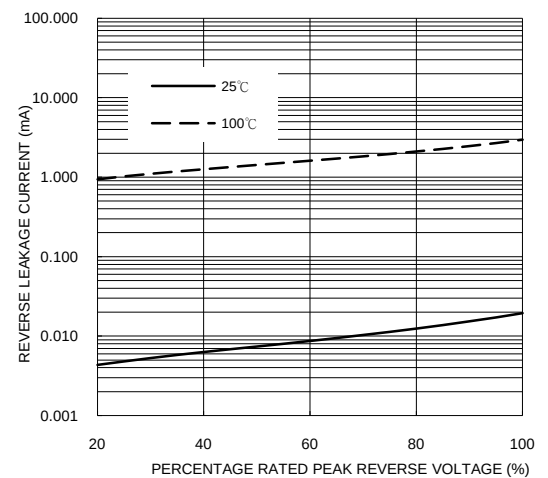
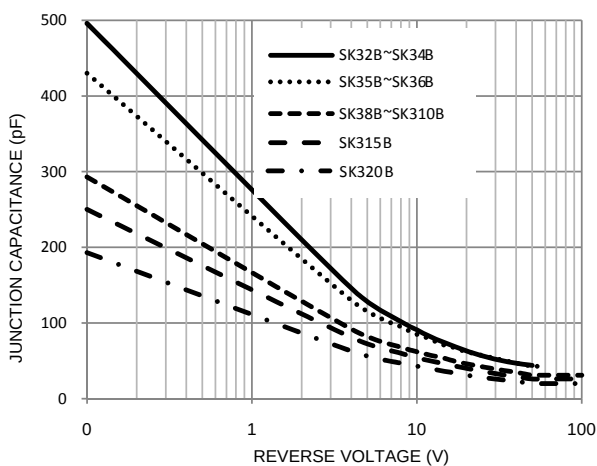
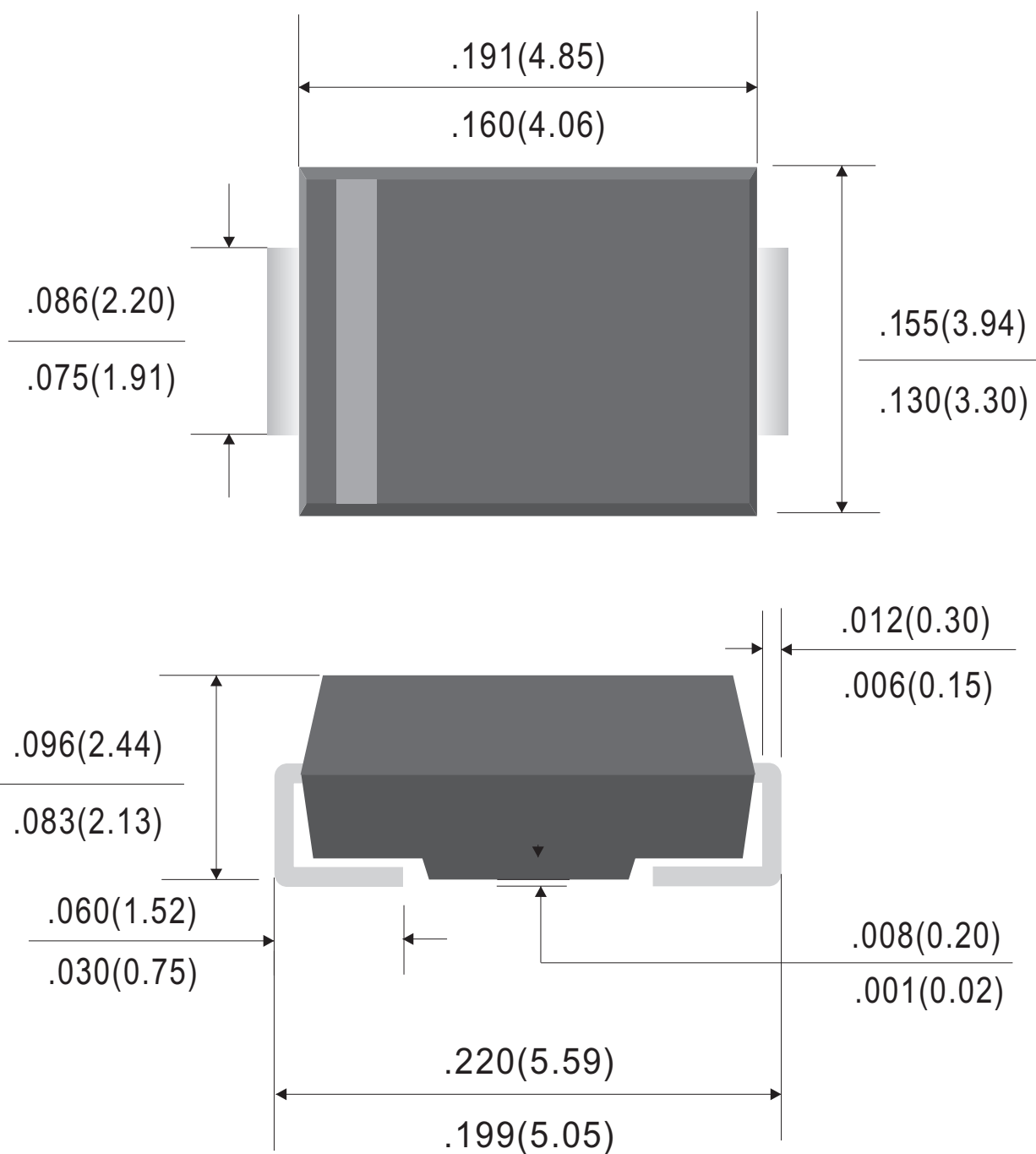


FIG. 5-TYPICAL JUNCTION CAPACITANCE



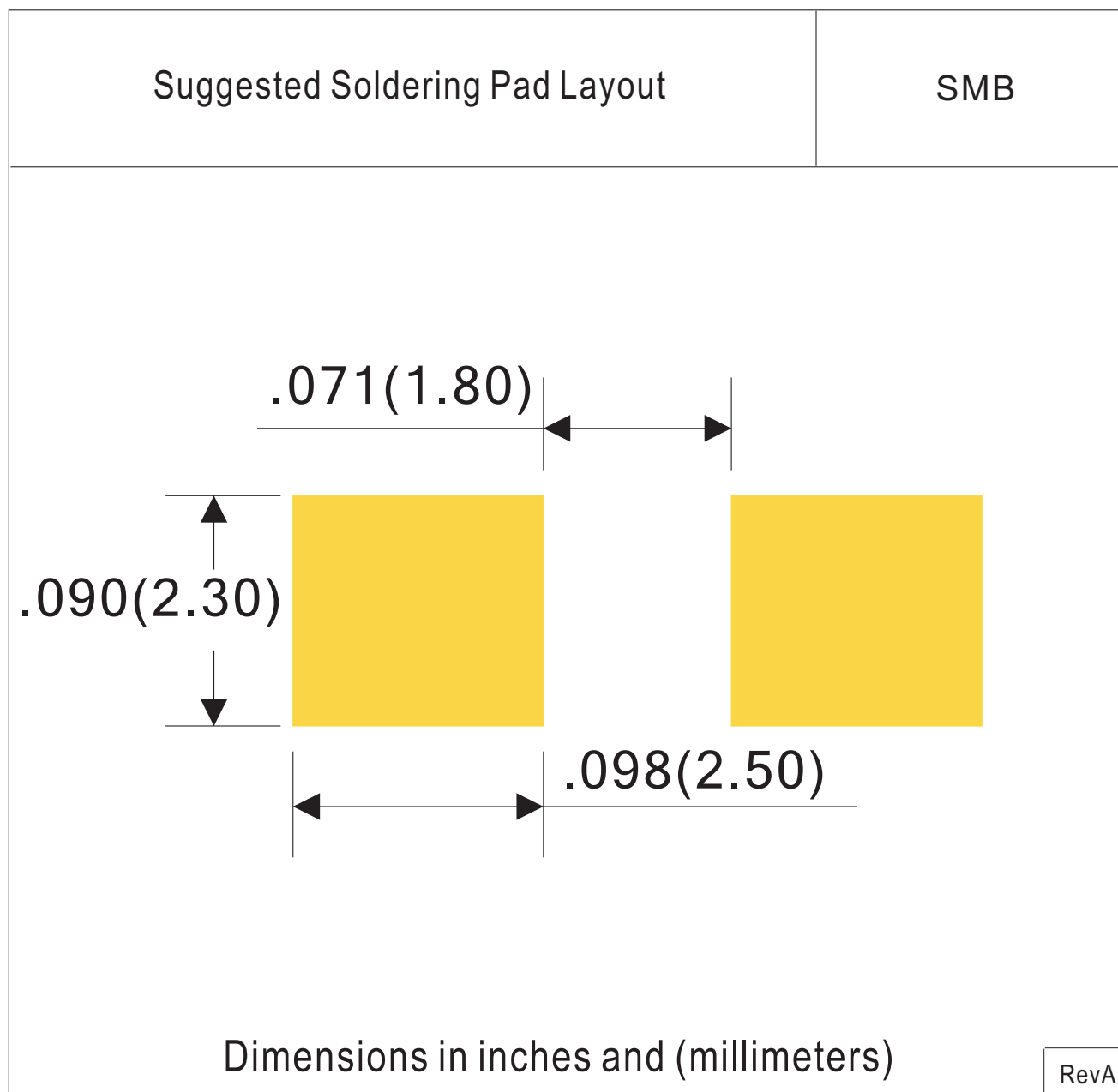
Outline Drawing

SMB(DO-214AA)



Dimensions in inches and (millimeters)

Rev.F



Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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