

PRIMARY CHARACTERISTICS

V_{RRM}	20V~200V
I_O	3A
V_F	0.55V~0.9V
$T_{J,Max}$	125°C,150°C

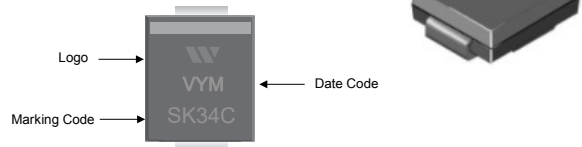
FEATURES

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

SMC(DO-214AB)

PACKAGE

Body Marking Example
Marking :SK32C~SK320C
Ex :SK34C



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



MECHANICAL DATA

- Case : Molded plastic,SMC(DO-214AB)
- 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	SK32C	SK33C	SK34C	SK35C	SK36C	SK38C	SK310C	SK315C	SK320C	UNIT
Marking Code			SK32C	SK33C	SK34C	SK35C	SK36C	SK38C	SK310C	SK315C	SK320C	
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 _{θJC}	30									°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	SK32C	SK33C	SK34C	SK35C	SK36C	SK38C	SK310C	SK315C	SK320C	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	@T _c =25°C	I _R	0.5									mAmps
Rated DC Blocking Voltage	@T _c =100°C		20									

NOTES:

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

2- Thermal Resistance From Junction to Case.



RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

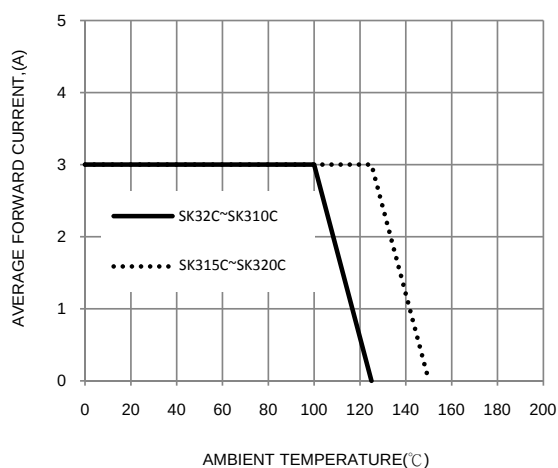


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

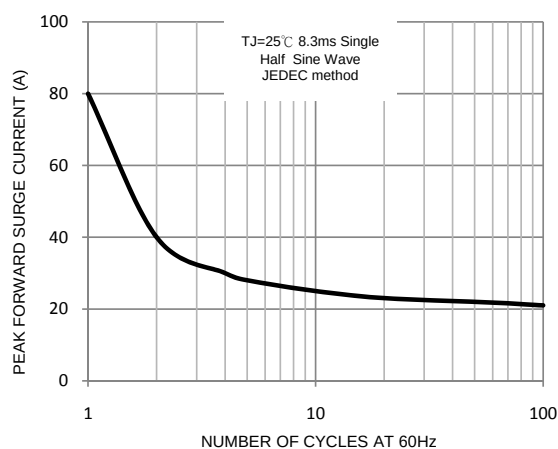


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

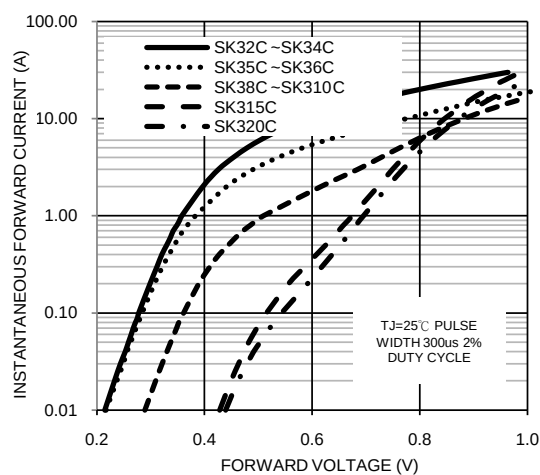
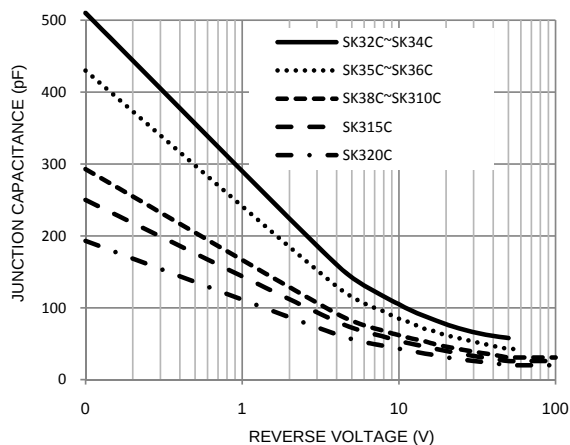
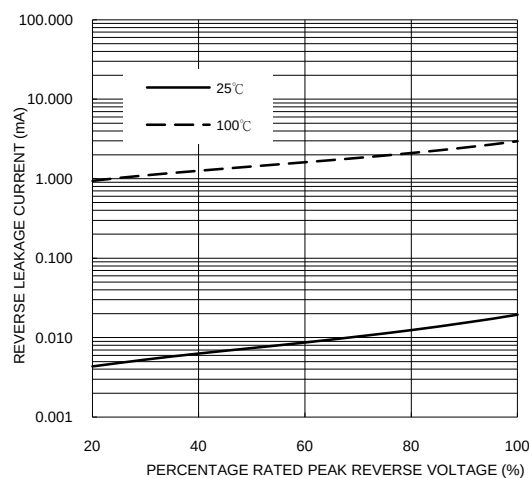
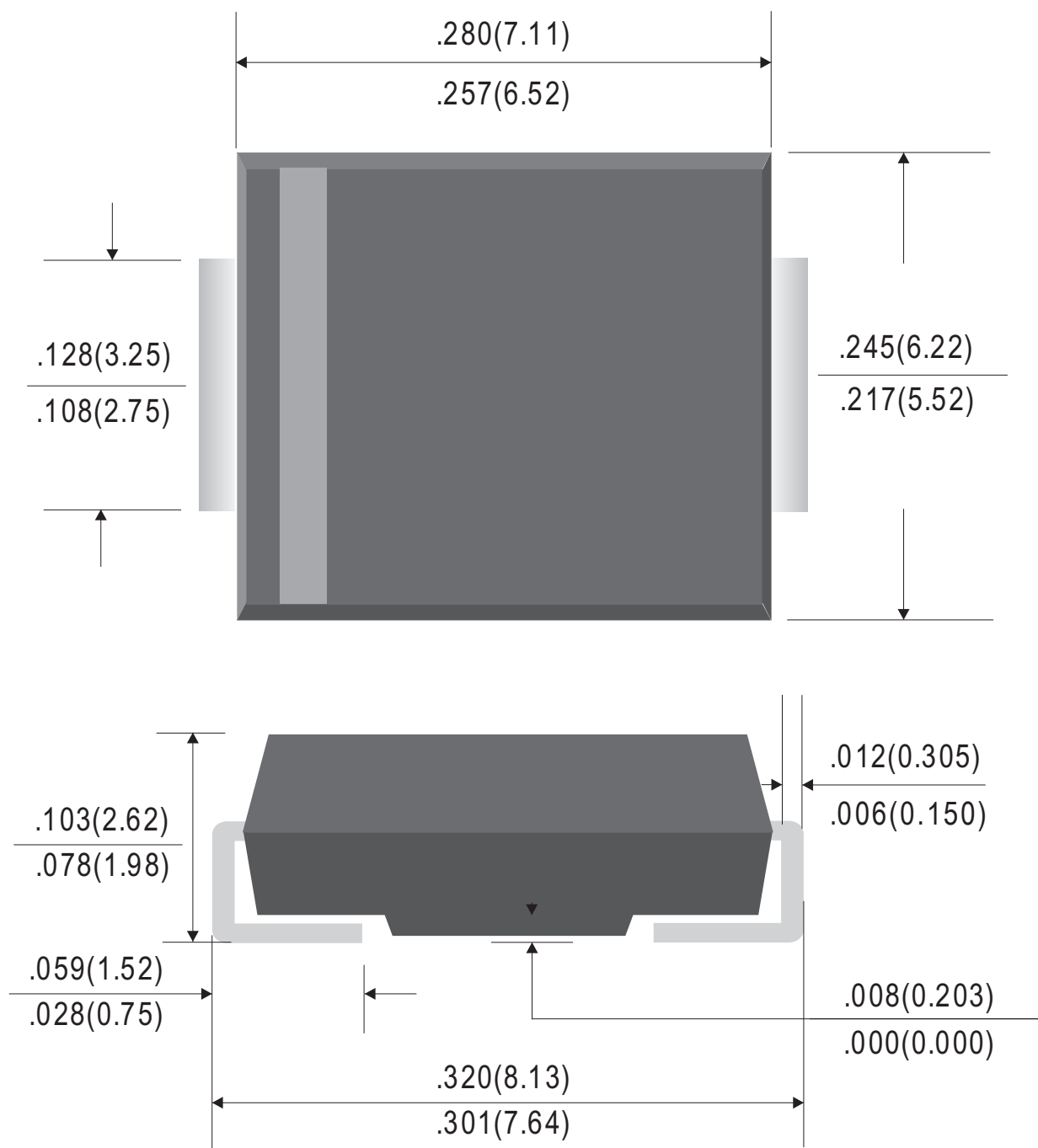


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



Outline Drawing

SMC(DO-214AB)



Dimensions in inches and (millimeters)

Rev.C

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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