WILLAS

SK32C THRU SK320C

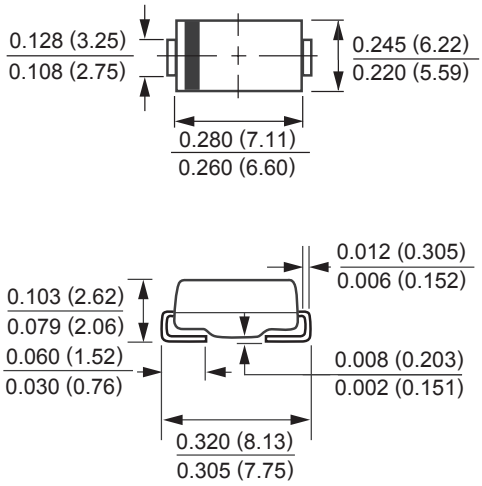
Pb Free Product

3.0A SCHOTTKY BARRIER RECTIFIERS -20V- 200V

SMC PACKAGE

FEATURES

* Ideal for surface mounted applications
* Low switching noise
* Low forward voltage drop
* High current capability
* High switching capability
* High reliability
* High surge capability
* RoHS product for packing code suffix "G",
  Halogen free product for packing code suffix "H".



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, DO-214AB(SMC)
Epoxy: UL 94V-O rate flame retardant
Lead:MIL-STD-202E method 208C guaranteed
Mounting position: Any
Weight: Approximated 0.231 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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)	$R_{\Theta JC}$	30									℃/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		℃
Storage Temperature Range	T_{STG}	-55 to +150									℃

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	@Tc=25℃	I_R	0.5									mAmps
Rated DC Blocking Voltage	@Tc=100℃		20									

NOTES:

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

2- Thermal Resistance From Junction to Case.

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3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 200V
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RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

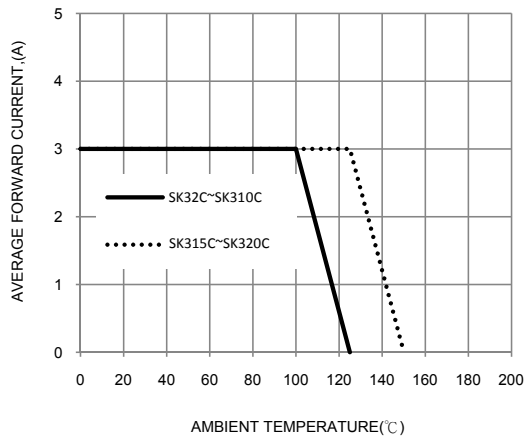

FIG. 2-TYPICAL FORWARD CHARACTERISTICS

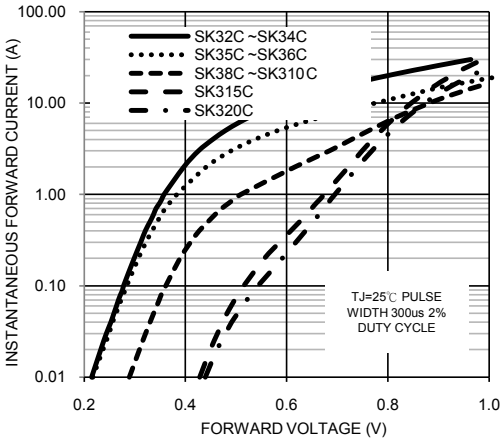

FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

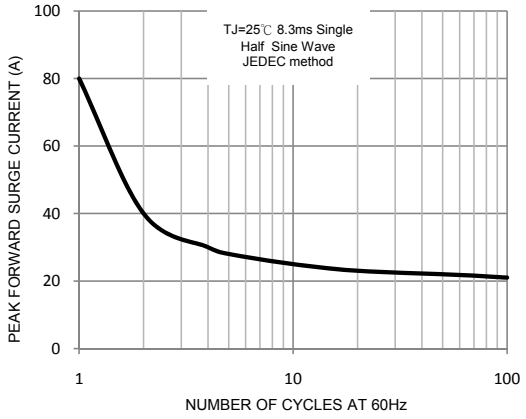

FIG. 4-TYPICAL REVERSE CHARACTERISTICS