

3.0AMP SCHOTTKY BARRIER RECTIFIERS

SMA-P (DO-214AC) PACKAGE

**SK32AW
THRU
SK320AW**

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * High reliability
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"

MECHANICAL DATA

Case: Molded plastic, DO-214AC/SMA-P

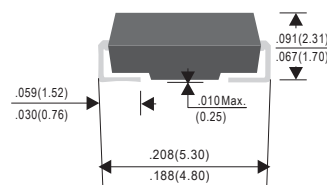
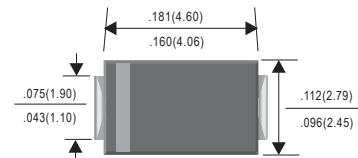
Epoxy: UL 94V-O rate flame retardant

Terminals: Solder plated, solderable per
MIL-STD-750, Method 2026.

Mounting position: Any

Weight: Approximated 0.06 gram.

SMA-P(DO-214AC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SK32AW	SK33AW	SK34AW	SK35AW	SK36AW	SK38AW	SK310AW	SK315AW	SK320AW	UNIT
Marking Code		SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	SK315A	SK320A	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	Io	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80									Amps
Typical Thermal Resistance (Note 2)	RθJA/RθJC	70/30									°C/W
Typical Junction Capacitance (Note 1)	CJ	180			150		110		100	80	PF
Operating Temperature Range	TJ	-55 to +125						-55 to +150			°C
Storage Temperature Range	TSTG	-55 to +150									°C

CHARACTERISTICS		SYMBOL	SK32AW	SK33AW	SK34AW	SK35AW	SK36AW	SK38AW	SK310AW	SK315AW	SK320AW	UNIT
Maximum Forward Voltage at • .0A DC		V _F	0.55			0.70		0.85		0.87	0.90	Volts
Maximum Average Reverse Current at	@TC=25°C	I _R	0.5					0.2				mAmps
Rated DC Blocking Voltage	@TC=100°C		10					5.0				

NOTES:

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

2- Thermal Resistance From Junction to Ambient



WILLAS



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RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

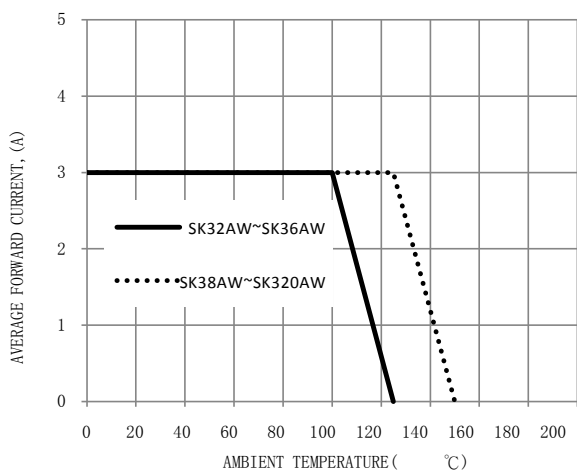


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

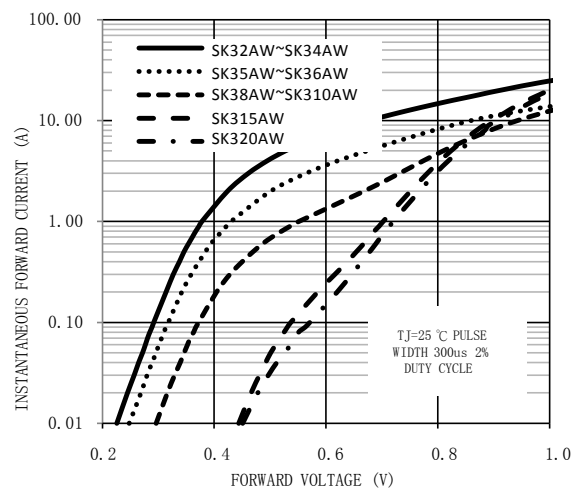


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

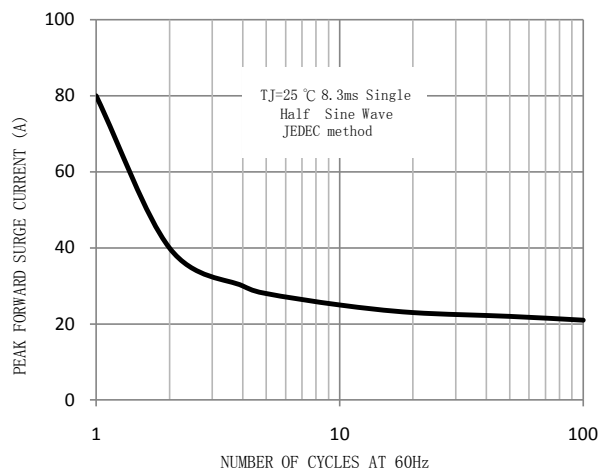


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

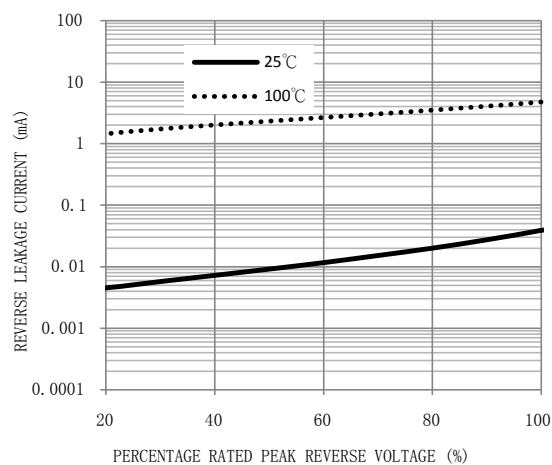


FIG. 5-TYPICAL JUNCTION CAPACITANCE

