

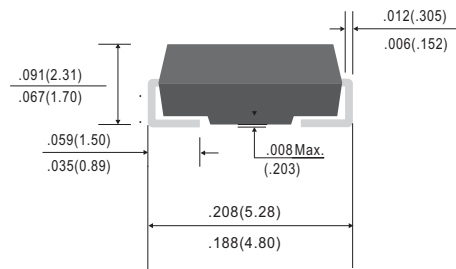
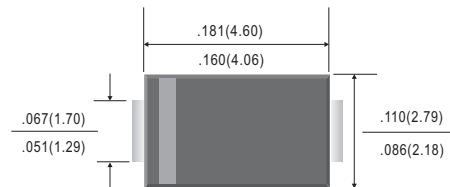
' \$5 SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 200V SMA PACKAGE

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"



SMA(DO-214AC)



Dimensions in inches and (millimeters)

MECHANICAL DATA

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

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	SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	SK315A	SK320A	UNIT
Marking Code		SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	SK315A	SK320A	
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									Amps
Typical Thermal Resistance (Note 2)	R _{ΘJA} /R _{ΘJC}	70/30									°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	SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK310A	SK315A	SK320A	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	I _R	0.5			10		0.2		5.0		mAmps
Rated DC Blocking Voltage											

NOTES:

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

2- Thermal Resistance From Junction to Ambient

RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

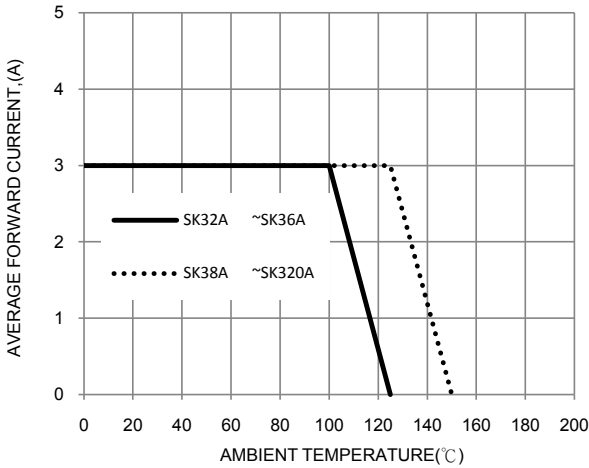


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

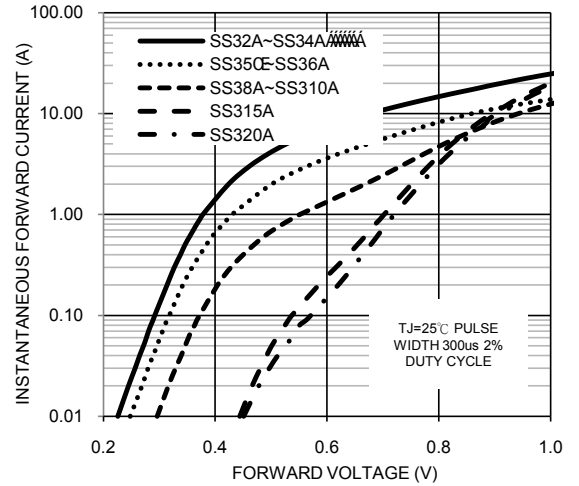


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

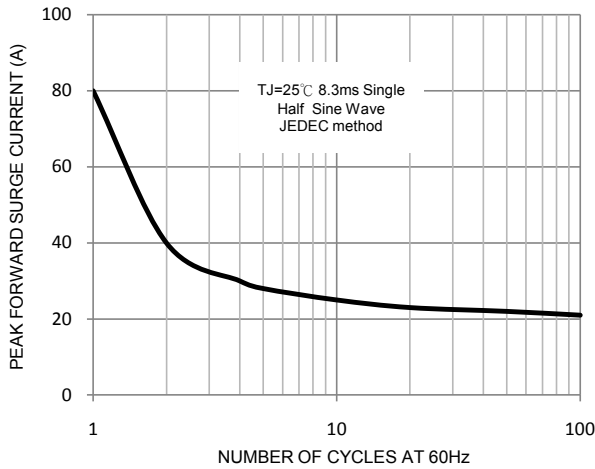


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

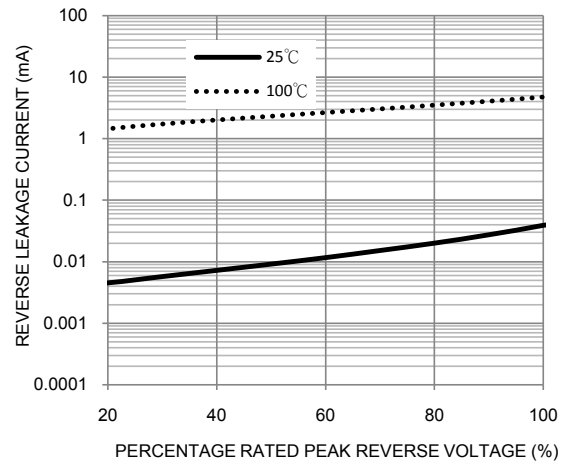


FIG. 5-TYPICAL JUNCTION CAPACITANCE

