

SK32A THRU SK3AA-HAF

Surface Mount Schottky Barrier Rectifiers

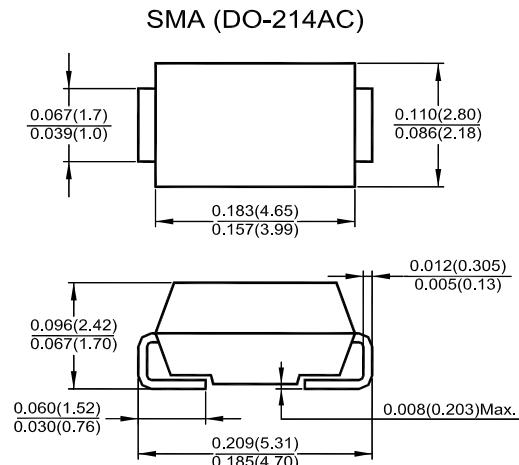
Reverse Voltage - 20 to 100 V
Forward Current - 3 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability, low forward voltage drop
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

- **Case:** SMA (DO-214AC) molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- **Polarity:** color band denotes cathode end



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20%

Parameter	Symbols	SK32A	SK33A	SK34A	SK35A	SK36A	SK38A	SK3AA	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$						3		A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}						100		A
Maximum Instantaneous Forward Voltage at 3 A	V_F		0.55		0.7		0.85		V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	I_R				0.5				mA
					20				
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$ $R_{\theta JL}$				55				°C/W
					17				
Operating Junction Temperature Range	T_j				- 55 to + 125				°C
Storage Temperature Range	T_{stg}				- 55 to + 150				°C

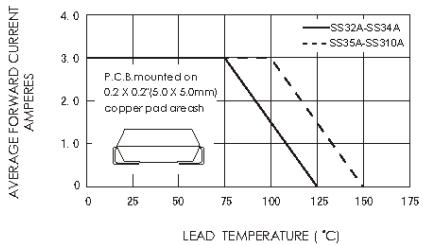
¹⁾ P.C.B. mounted with 0.55 X 0.55 " (14 X 14 mm) copper pad areas.

TOP DYNAMIC

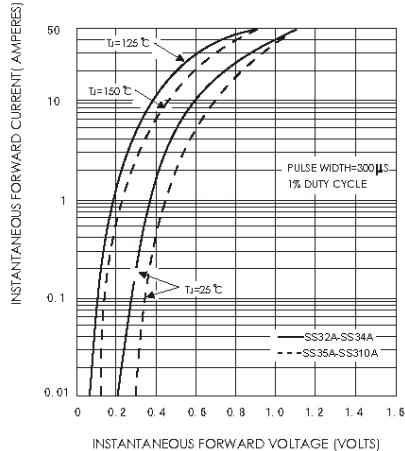


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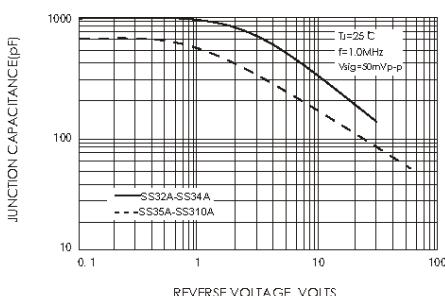
FORWARD CURRENT DERATING CURVE



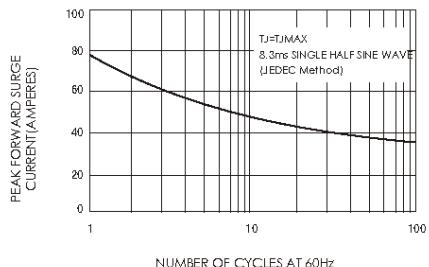
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



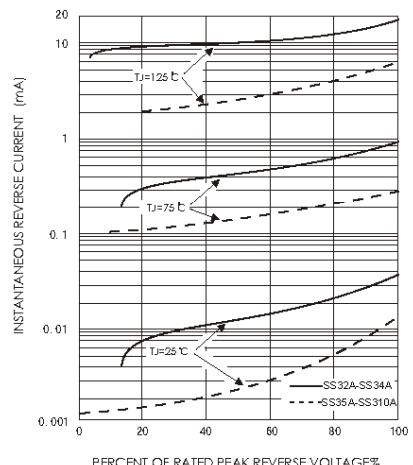
TYPICAL JUNCTION CAPACITANCE



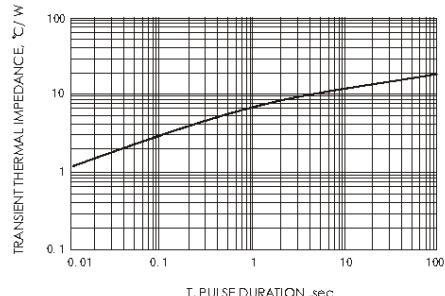
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS



TYPICAL TRANSIENT THERMAL IMPEDANCE



TOP DYNAMIC

