

Surface Mount Schottky Barrier Rectifiers

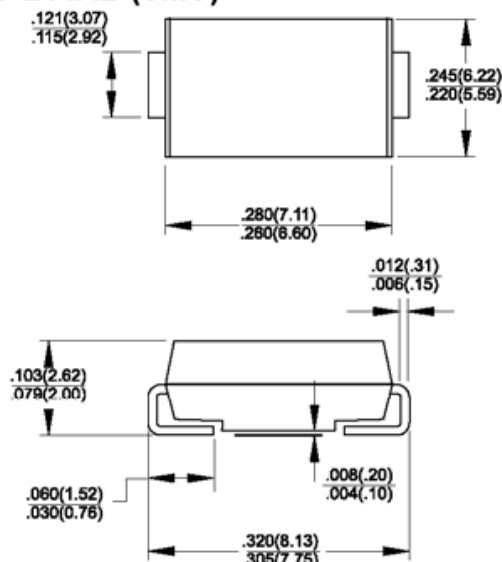
FEATURES

- Reverse voltage 20 to 60 V
- Forward current 3.0 A
- For surface mounted applications
- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Very low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- **Case** : JEDEC DO-214AB(SMC) molded plastic
- **Polarity** : Color band denotes cathode
- **Weight** : 0.009 ounce, 0.25 gram

DO-214AB (SMC)



Dimensions in inches and (millimeters)

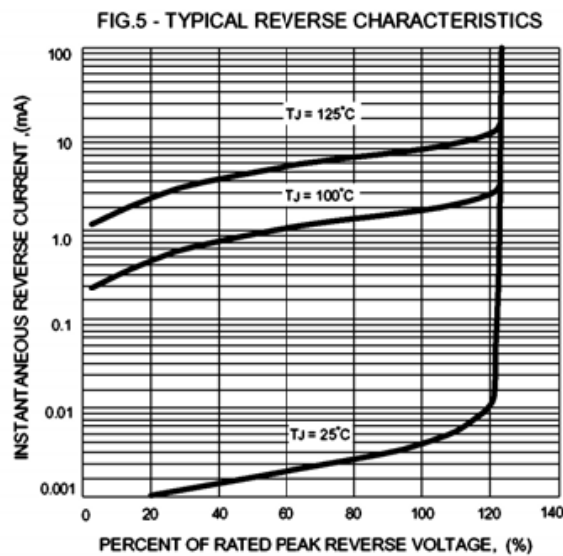
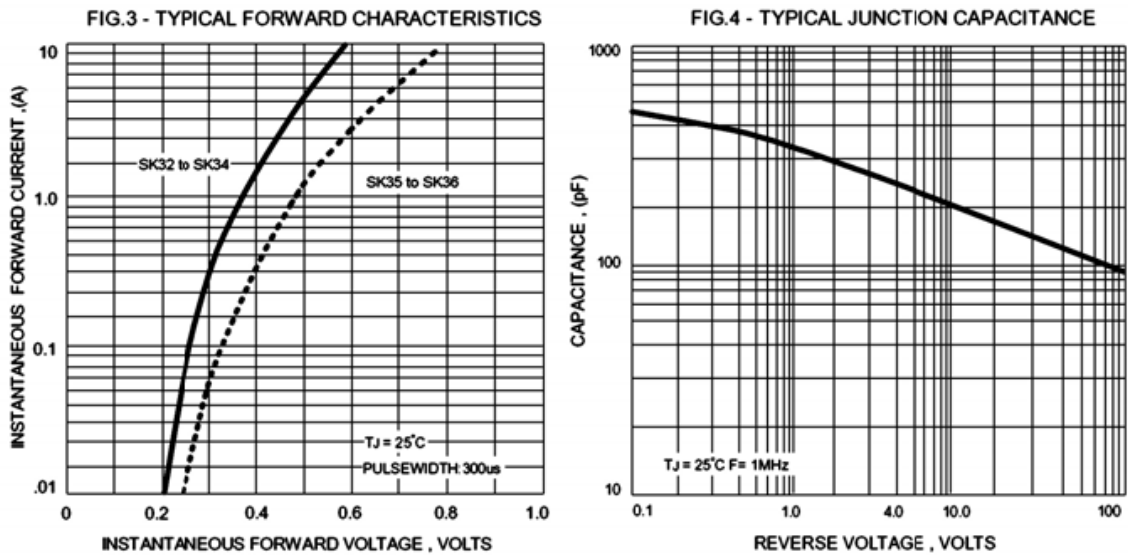
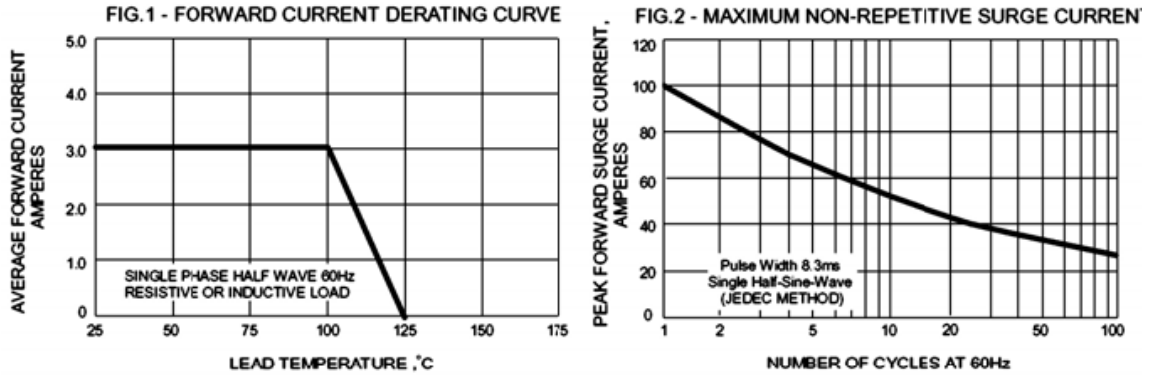
ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Unless otherwise specified, these specifications apply over the operating ambient temperature of 25°C. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	SK32	SK33	SK34	SK35	SK36	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	Volts
Maximum average forward rectified current @ $T_L=100^\circ\text{C}$	I_{AV}	3.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100.0					Amps
Maximum forward voltage at 3.0A DC	V_F	0.50		0.70			Volts
Maximum DC reverse current at rated DC blocking voltage @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	I_R			0.5 20			mA
Typical junction capacitance (Note 1)	C_J	250					pF
Typical thermal resistance (Note 2,3)	$R_{\theta JL}$ $R_{\theta JA}$	10 50					$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55 to +125					$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150					$^\circ\text{C}$

- Notes:**
1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2. Thermal Resistance Junction to Lead.
 3. Thermal Resistance Junction to Ambient.

RATINGS AND CHARACTERISTIC CURVES (TA = 25°C unless otherwise specified)



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