

SK32 THRU SK310

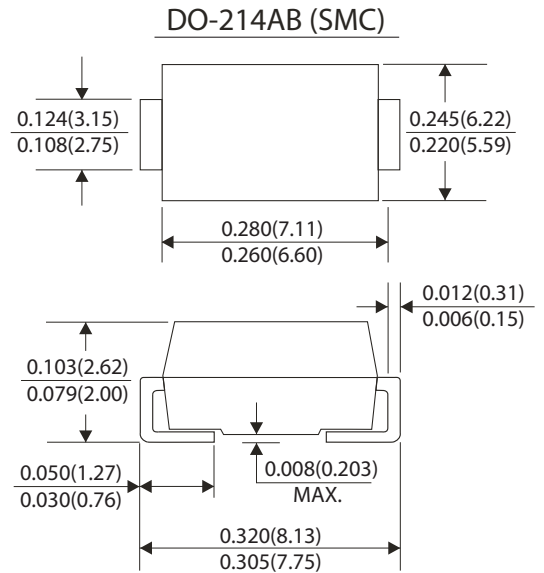
CURRENT 3.0Amperes
VOLTAGE 20 to 100 Volts

Features

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- For surface mount applications
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed : 250°C/10 seconds at terminals

Mechanical Data

- Case : JEDEC SMC(DO-214AB) molded plastic body
- Terminals : Solder Plate, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Weight : 0.007 ounce, 0.25 gram



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%)

		Symbols	SK32	SK33	SK34	SK35	SK36	SK38	SK39	SK310	Units
Maximum repetitive peak reverse voltage		V_{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC blocking voltage		V_{DC}	20	30	40	50	60	80	90	100	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length(see Fig. 1)		$I_{(AV)}$	3.0								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	70.0								Amps
Maximum instantaneous forward voltage at 3.0A (Note 1)		V_F	0.55			0.75		0.85			Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Note1)	$T_A=25^{\circ}C$	I_R	2.0								mA
	$T_A=100^{\circ}C$		20								
Typical thermal resistance (Note 2)		$R_{\theta JA}$	17								$^{\circ}C/W$
Operating junction temperature range		T_J	-50 to +125								$^{\circ}C$
Storage temperature range		T_{STG}	-65 to +150								$^{\circ}C$

Notes:

- (1) Pulse test: 300 μ S pulse width, 1% duty cycle
- (2) Thermal resistance junction to ambient

RATINGS AND CHARACTERISTIC CURVES SK32 THRU SK310

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

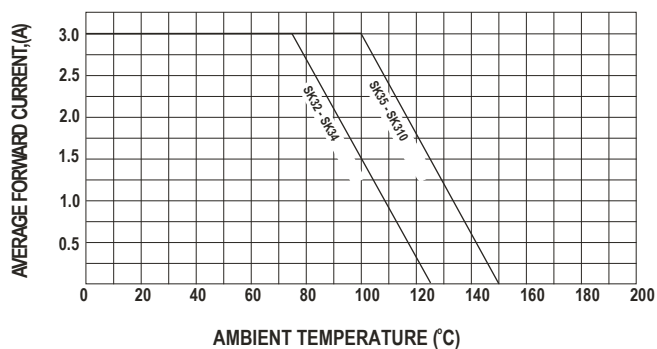


FIG.2-TYPICAL FORWARD CHARACTERISTICS

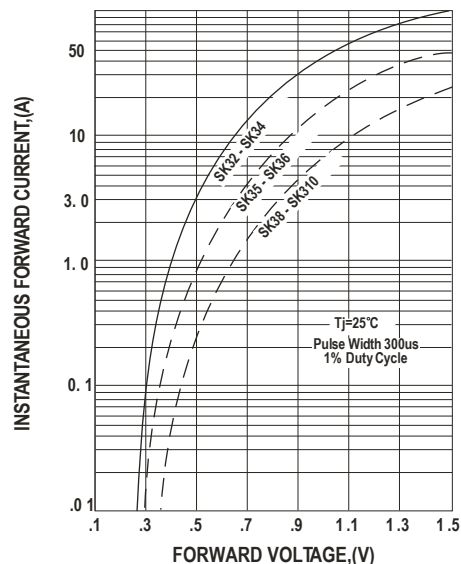


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

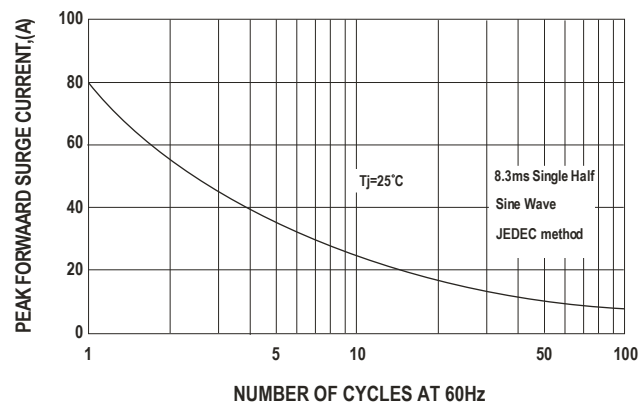


FIG.4-TYPICAL JUNCTION CAPACITANCE

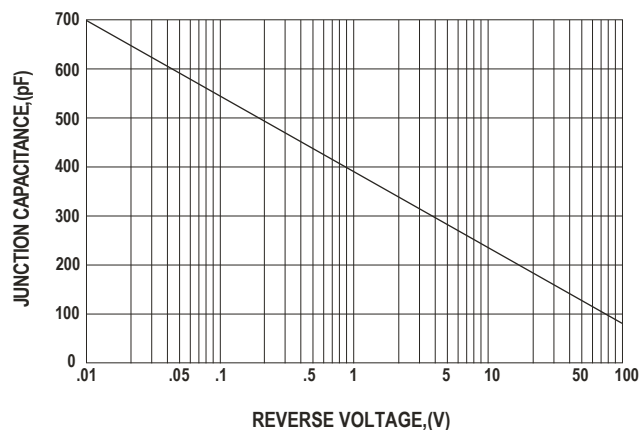


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

