



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK32

THRU

SK38

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 80 Volts

CURRENT - 3.0 Amperes

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction

MECHANICAL DATA

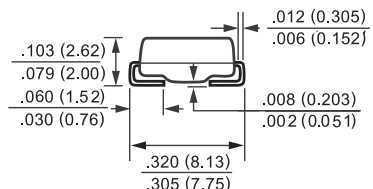
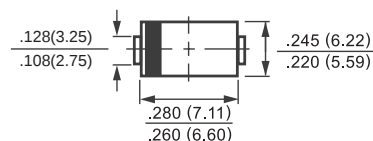
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



SMC (DO-214AB)



Dimensions in inches and (millimeters)

		SYMBOL	SK32	SK33	SK34	SK35	SK36	SK38	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature		I _O	3.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	100						Amps
Maximum Instantaneous Forward Voltage at 3.0A DC		V _F	0.55			0.70		0.85	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	I _R	2.0						mAmps
	@TA = 100°C		20						
Typical Thermal Resistance (Note 1)		R _{θJA}	55						°C/W
Typical Junction Capacitance (Note 2)		C _J	200						pF
Operating Temperature Range		T _J	-55 to + 125						°C
Storage Temperature Range		T _{STG}	-55 to + 150						°C

NOTES : 1. Thermal Resistance (Junction to Ambient).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B Mounted with 0.4X0.4in²(10.0X10.0mm²) copper pad area.

RATING AND CHARACTERISTIC CURVES (SK32 THRU SK38)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

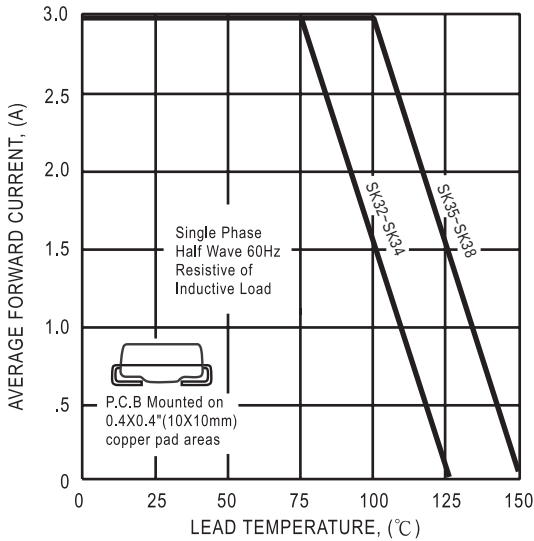


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

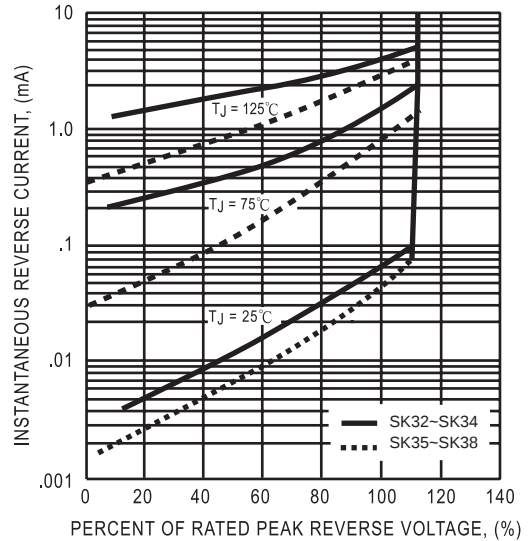


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

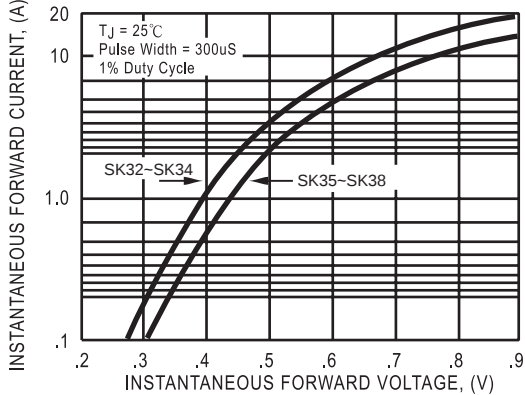


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

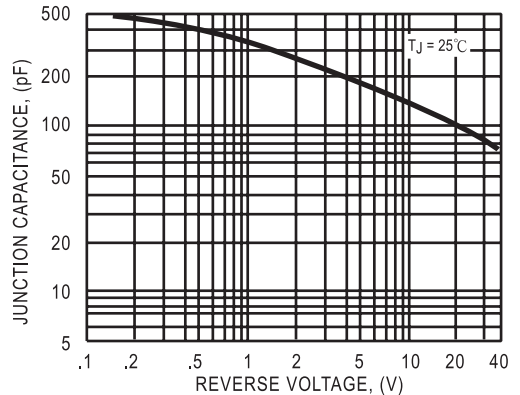
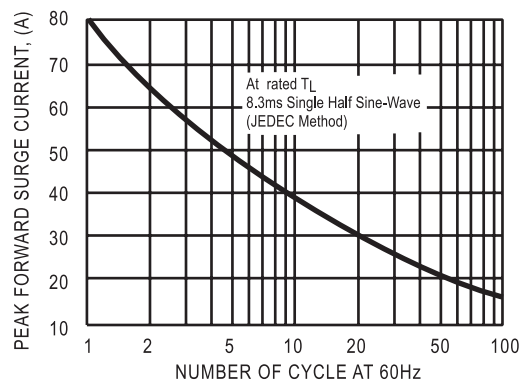


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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