



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

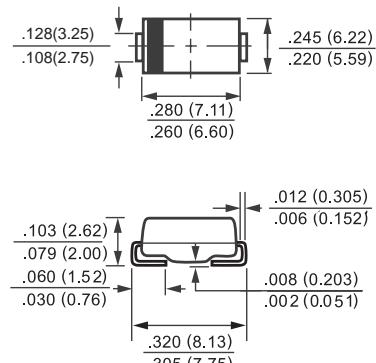
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.24 gram

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 @ T _A = 25°C at Rated DC Blocking Voltage	I _R			2.0				mAmps
				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

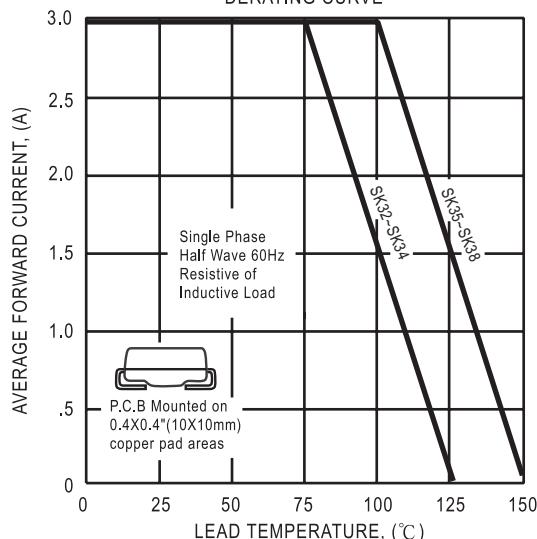


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

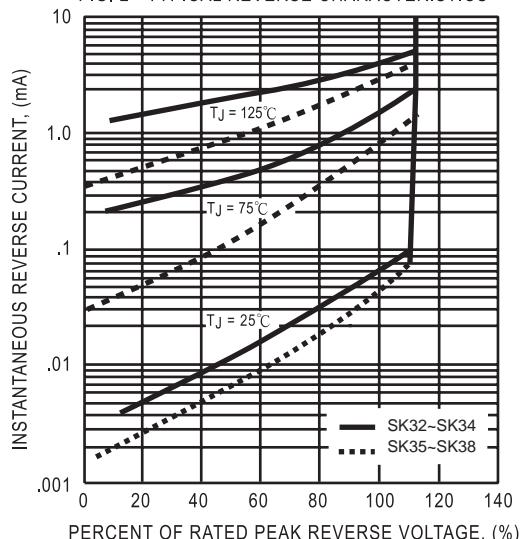


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS, (A)

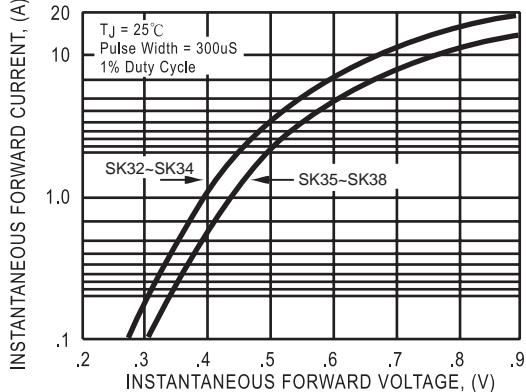


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

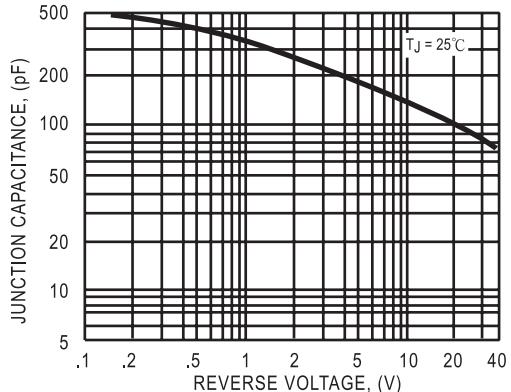
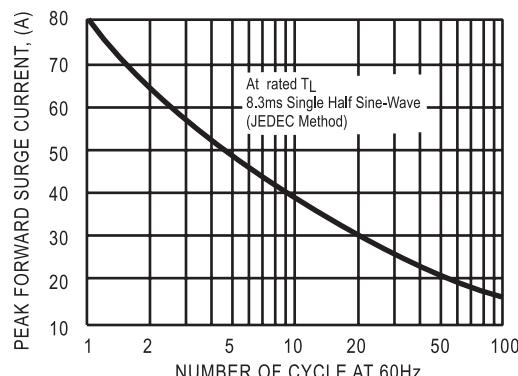


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



DC COMPONENTS CO., LTD.