

SK82 THRU SK810

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 8.0 Amperes

FEATURES

0.067 (2.20) 0.071 (1.80) 0.155(3.94) 0.130(3.30) 0.160(4.06) 0.006(2.44) 0.006(2.13) 0.006(2.52) 0.006(1.52) 0.006(0.152)

Dimensions in inches and (millimeters)

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MDD Catalog Number	SYMBOLS	SK82	SK83	SK835	SK84	SK845	SK86	SK88	SK810	UNITS
Marking code		MDD SK82	MDD SK83	MDD SK835	MDD SK84	MDD SK845	MDD SK86	MDD SK88	MDD SK810	
Maximum repetitive peak reverse voltage	VRRM	20	30	35	40	45	60	80	100	VOLTS
Maximum RMS voltage	VRMS	14	21	24.5	28	31.5	42	56	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	35	40	45	60	80	100	VOLTS
Maximum average forward rectified current at TL =95 C	l(AV)	8.0							Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	200.0								Amps
Maximum instantaneous forward voltage at 8.0A	VF	0.65 0.85							Volts	
Maximum DC reverse current T _A =25℃ at rated DC blocking voltage T _A =100℃	lr	1 20								- mA
Typical junction capacitance (NOTE 1)	C¹	400								pF
Typical thermal resistance (NOTE 2)	RθJA	18.0								°C/W
Operating junction temperature range	TJ,	-50 to +150								°C
Storage temperature range	Тѕтс	-50 to +150								°C

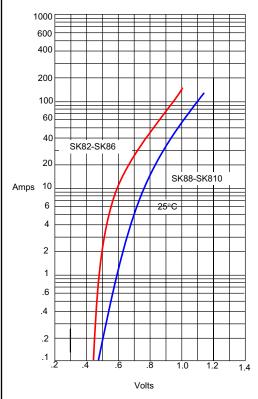
Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

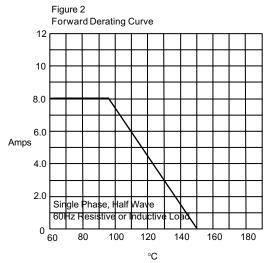
2.P.C.B. mounted with 0.2x0.2 "(5.0x5.0mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES SK82 THRU SK810

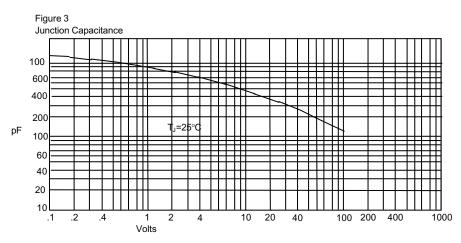
Figure 1 Typical Forward Characteristics





Average Forward Rectified Current - Amperes*versus* Junction Temperature -°C

Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

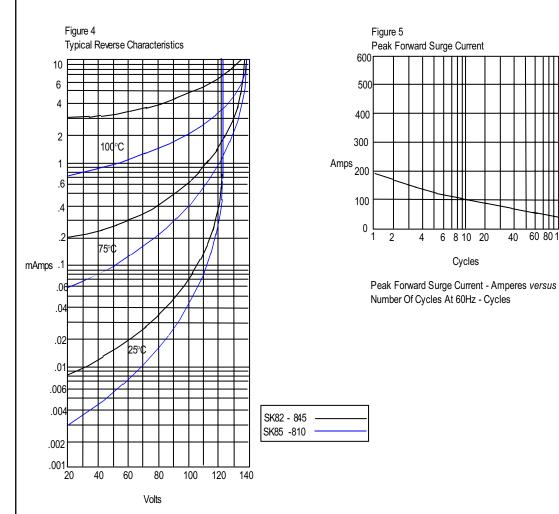


Junction Capacitance - pF *versus* Reverse Voltage - Volts

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



RATINGS AND CHARACTERISTIC CURVES SK82 THRU SK810



Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



20

40

8 10

Cycles

60 80 100