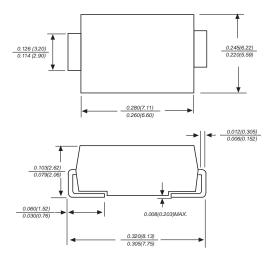


# **SK82 THRU SK810**

#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

#### DO-214AB/SMC



# **FEATURES**

- ◆ 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-214AB molded plastic body **Terminals**: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

**Mounting Position**: Any

Weight: 0.007 ounce, 0.25grams

Dimensions in inches and (millimeters)

#### 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%.

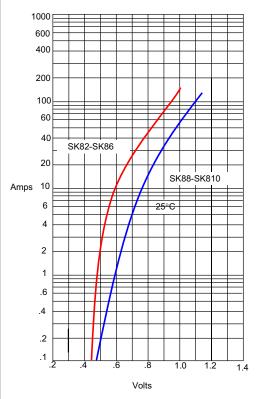
MDD Catalog Number	SYMBOLS	SK82	SK83	SK835	SK84	SK845	SK86	SK88	SK810	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	35	40	45	60	80	100	VOLTS
Maximum RMS voltage	VRMS	14	21	24.5	28	31.5	42	56	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	35	40	45	60	80	100	VOLTS
Maximum average forward rectified 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 Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	1 20								- mA
Typical junction capacitance (NOTE 1)	C¹	400								pF
Typical thermal resistance (NOTE 2)	Reja	18.0								°C/W
Operating junction temperature range	TJ,	-50 to +150								°C
Storage temperature range	Тѕтс	-50 to +150							°C	

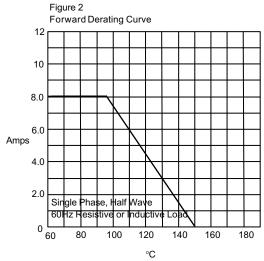
Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2 "(5.0x5.0mm) copper pad areas



## **RATINGS AND CHARACTERISTIC CURVES SK82 THRU SK810**

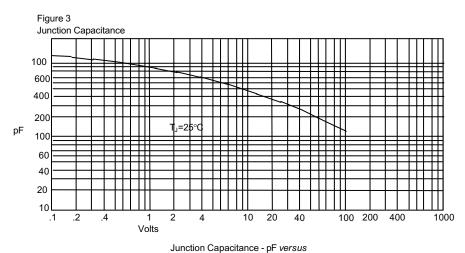
Figure 1
Typical Forward Characteristics





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

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



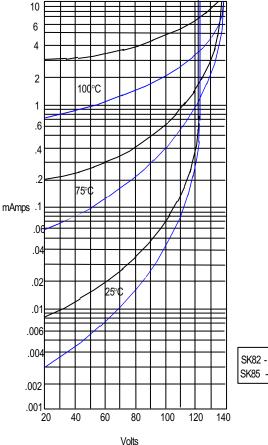
Reverse Voltage - Volts

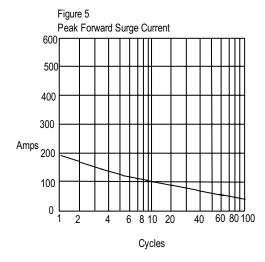
The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



# **RATINGS AND CHARACTERISTIC CURVES SK82 THRU SK810**

Figure 4
Typical Reverse Characteristics





Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

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)!

