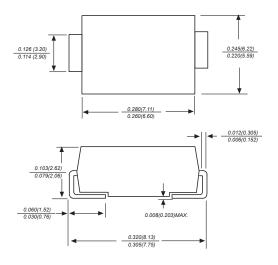


SK52 THRU SK510

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 5.0 Amperes

DO-214AB



Dimensions in inches and (millimeters)

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

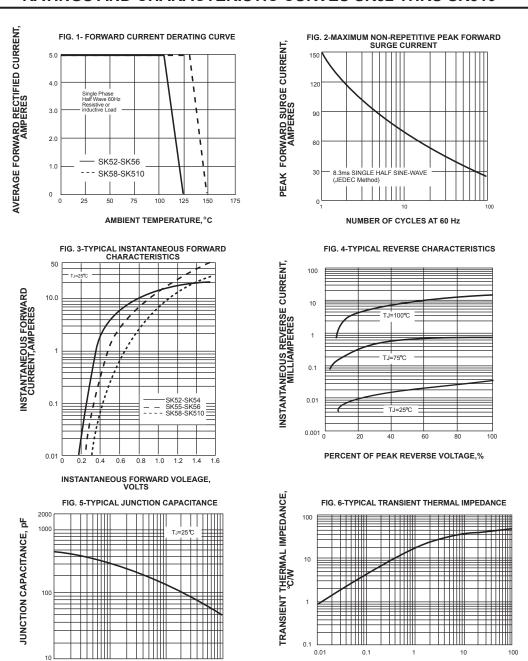
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

	SYMBOLS	SK52	SK53	SK54	SK55	SK56	SK58	SK510	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	VOLTS
Maximum average forward rectified current at TL(see fig.1)	l _(AV)	5.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	150.0						Amps	
Maximum instantaneous forward voltage at 5.0A	VF		0.55		0.70		0.85		Volts
Maximum DC reverse current Ta=25℃		0.5						mA	
at rated DC blocking voltage Ta=100℃	lR	20 10					0		
Typical junction capacitance (NOTE 1)	Cı	200						pF	
Typical thermal resistance (NOTE 2)	Reja	50.0						°C/W	
Operating junction temperature range	TJ,	-65 to +125				°C			
Storage temperature range	Тѕтс	-65 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 SK52 THRU SK510



t.PULSE DURATION.sec.

0.1

REVERSE VOLTAGE, VOLTS