

SK52B - SK510B SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 20-100V CURRENT: 5.0 A

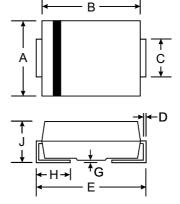
Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)





SMB(DO-214AA)							
Dim	Min	Max					
Α	3.30	3.94					
В	4.06	4.70					
С	1.91	2.21					
D	0.15	0.31					
Е	5.00	5.59					
G	0.10	0.20					
н	0.76	1.52					
J	2.00	2.62					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

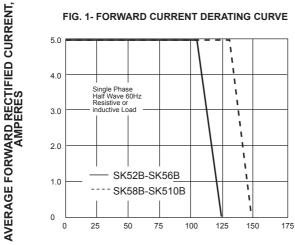
Characteristic	Symbol	SK52B	SK53B	SK54B	SK55B	SK56B	SK58B	SK510B	Unit
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	V
Maximum RMS voltage		14	21	28	35	42	56	70	V
Maximum DC blocking voltage		20	30	40	50	60	80	100	V
Maximum average forward rectified current at TL(see fig.1)	l(AV)	5.0						А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150.0						А	
Maximum instantaneous forward voltage at 5.0A	Vf	0.55 0.70			0.85		V		
Maximum DC reverse currentTa=25℃at rated DC blocking voltageTa=100℃	lr	0.5						mA	
Typical junction capacitance (NOTE 1)	CJ	200						pF	
Typical thermal resistance (NOTE 2)	Rθja	50.0						°C/W	
Operating junction temperature range	TJ,	-65 to +125 -65 to +150					°C		
Storage temperature range	Тѕтс	-65 to +150					°C		

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

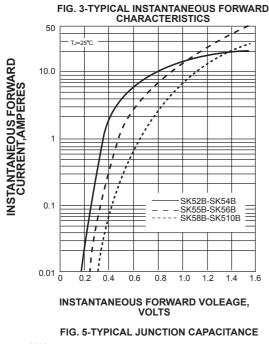
2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

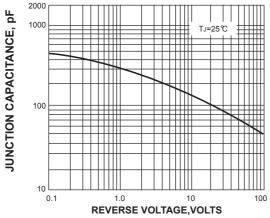


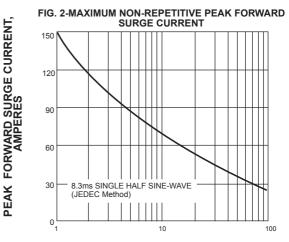
RATINGS AND CHARACTERISTIC CURVES SK52B THRU SK510B



AMBIENT TEMPERATURE, °C

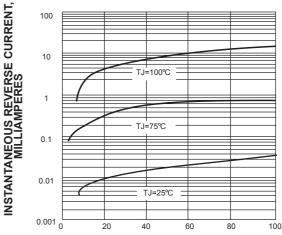




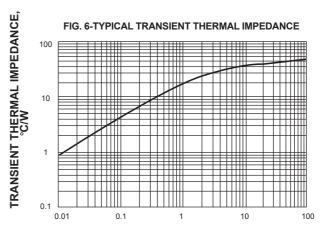


NUMBER OF CYCLES AT 60 Hz





PERCENT OF PEAK REVERSE VOLTAGE,%



t,PULSE DURATION,sec.

FIG. 4-TYPICAL REVERSE CHARACTERISTICS