

SK52BF - SK510BF

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 20 - 100V CURRENT: 5.0 A

Features

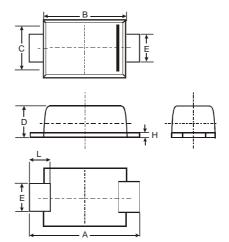
- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability

Mechanical Data

- Case:SMBF, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.0018 ounces, 0.05 grams







SMBF									
Dim	Min	Max	Тур						
Α	5.45	5.55	5.50						
В	4.27	4.33	4.30						
ပ	3.57	3.63	3.60						
ם	1.32	1.38	1.35						
Е	1.96	2.00	1.98						
Н	0.019	0.021	0.20						
L	0.73	0.77	0.75						
All Dimensions in mm									

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

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

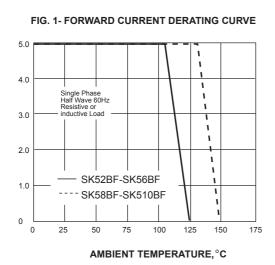
Characteristic	Symbol	SK52BF	SK53BF	SK54BF	SK55BF	SK56BF	SK58BF	SK510BF	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	V
Maximum average forward rectified current	l _(AV)	5.0							А
at TL(see fig.1)		5.0							
Peak forward surge current		150.0							А
8.3ms single half sine-wave superimposed on	IFSM								
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 5.0A	VF	0.55 0.70 0.85				5	V		
Maximum DC reverse current Ta=25°C		0.5						mA	
at rated DC blocking voltage Ta=100℃	l lr	20 10						111/4	
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 -65 to +150						°C	
Storage temperature range	Тѕтс	-65 to +150						°C	

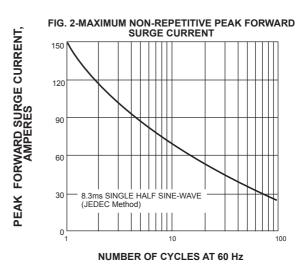
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

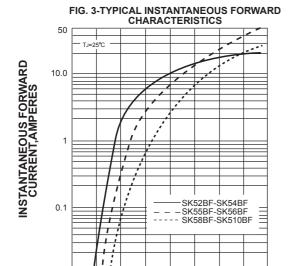


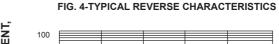
RATINGS AND CHARACTERISTIC CURVES SK52BF THRU SK510BF

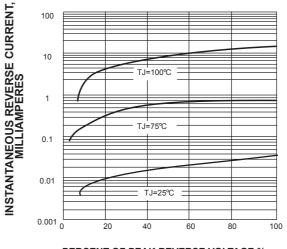
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES













1.4 1.6

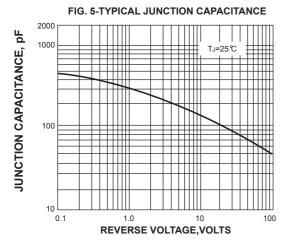
1.2

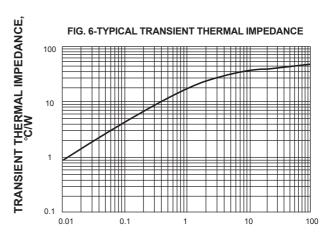
0.6 0.8 1.0

0.01 0

0.2 0.4







t,PULSE DURATION,sec.