

SK54FL THRU SK520FL

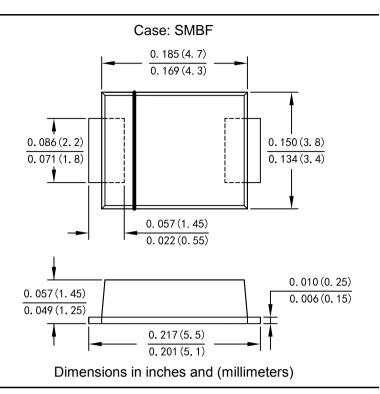
5.0 AMP Surface Mount Schottky Barrier Rectifiers

Features

- High current capacity, low VF
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- · Case: Molded plastic SMBF
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SK 54FL	SK 545FL	SK 55FL	SK 56FL	SK 58FL	SK 510FL	SK 515FL	SK 520FL	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	28	32	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	40	45	50	60	80	100	150	200	V
Average Rectified Output Current @T∟ =100°C	IF(AV)	5.0							А	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	120							А	
I^{2} t Rating for Fusing (t < 8.3ms)	l²t	59.76							A ² s	
Forward Voltage @IF=5.0A	Vfm	0.45 0.5		0.5	0	.6	0.8	5	V	
Peak Reverse Current @T _A =25 °C		0.1 0.05						mA		
At Rated DC Blocking Voltage @T _A =100°C	IR	10 5								
Typical Junction Capacitance (Note 1)	Сл	300					170			
Typical Thermal Resistance (Note 2)	R0 JA	65							°C /W	
Operating Temperature Range	TJ	-55 to+150							°C	
Storage Temperature Range	Tstg	-55 to +150							°C	

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

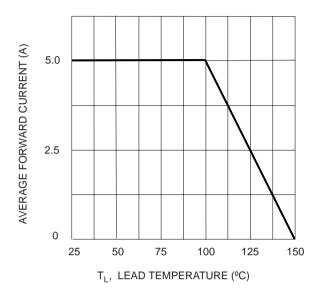
2. Thermal Resistance from Junction to Ambient at 0.375(9.5mm) lead length .



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Fig. 1 Forward Current Derating Curve



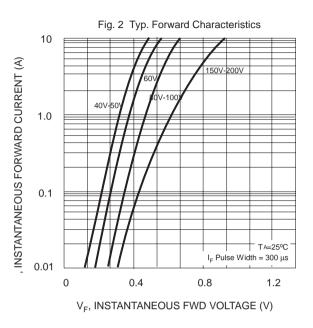
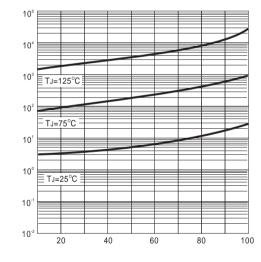


FIG.4TYPICALREVERSE CHRACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE ,%

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

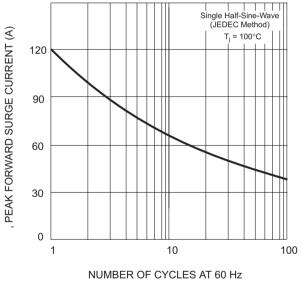
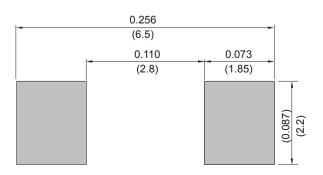


FIG.5 MOUNTING PAD LAYOUT



REVERSE CURRENT (uA)



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