



#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20-60 Volt CURRENT 2 Ampere

#### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- Built-in strain relief
- · Metal to silicon rectifier. majority carrier conduction
- · Low power loss, high efficiency
- · High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

Case: SMBF, Plastic

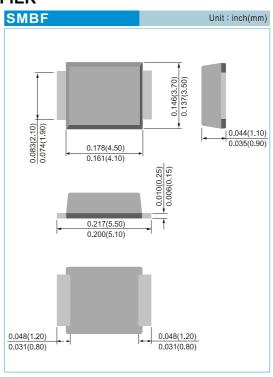
Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Weight: 0.0018 ounces, 0.05 grams







### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	SK22F	SK23F	SK24F	SK25F	SK26F	UNITS
Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
DC Blocking Voltage	V <sub>R</sub>	20	30	40	50	60	V
Average Forward Current	I <sub>F(AV)</sub>	2.0					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	50					А
Forward Voltage at 2.0A	V <sub>F</sub>	0.5				V	
DC Reverse Current at Rated DC Blocking Voltage  T <sub>J</sub> =25°C		0.1				mA	
Typical Junction capacitance V <sub>R</sub> =4V,1MHz	C		98		7	5	pF
Typical Thermal Resistance ,Junction to Ambient (Note 1)	R <sub>eJA</sub> R <sub>eJC</sub>	62.5 14				°C / W	
Operating Junction Temperature and Storage Temperature Range		-55 to +150					°C

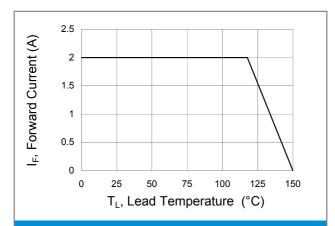
#### NOTES:

1.Mounted on 48cm<sup>2</sup> FR-4 PCB.

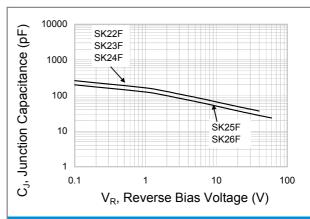




#### **RATING AND CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

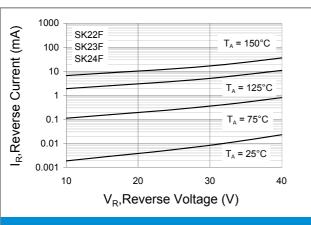
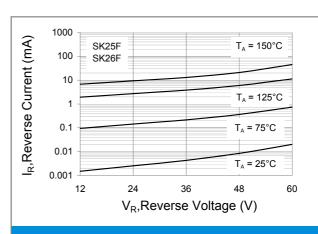


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Reverse Characteristics** 

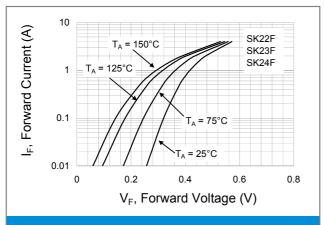
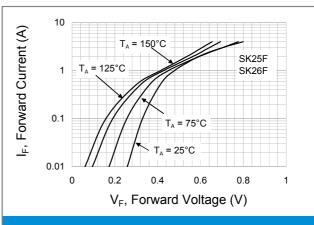


Fig.5 Typical Forward Characteristics

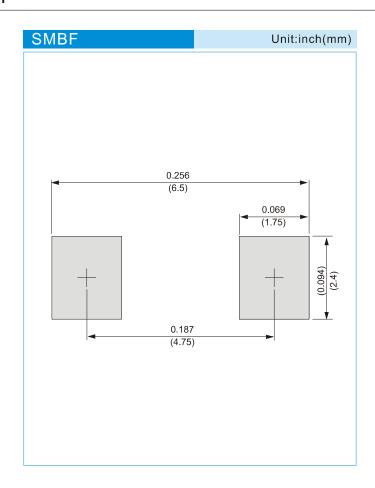


**Fig.6 Typical Forward Characteristics** 





### MOUNTING PAD LAYOUT



### ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





## Part No\_packing code\_Version

SK22F\_R1\_00001 SK22F\_R2\_00001

### For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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