



### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20-60 Volts CURRENT 2 Amperes

#### **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 comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

Case: SMBF, Plastic

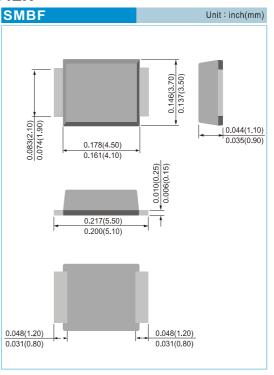
Terminals: Solderable per MIL-STD-750, Method 2026

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	٧
RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	٧
DC Blocking Voltage	V <sub>R</sub>	20	30	40	50	60	٧
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		0.5 0.7			.7	٧	
DC Reverse Current at Rated DC Blocking Voltage  T <sub>J</sub> =25°C	I <sub>R</sub>	0.1				mA	
Typical Junction capacitance V <sub>R=4</sub> V,1MHz	C <sub>J</sub>		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 Ra	inge T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150				°C	

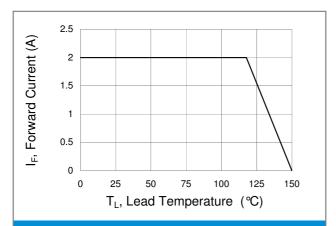
#### NOTES:

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





### RATING AND CHARACTERISTIC CURVES



**Fig.1 Forward Current Derating Curve** 

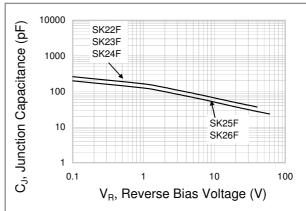


Fig.2 Typical Junction Capacitance

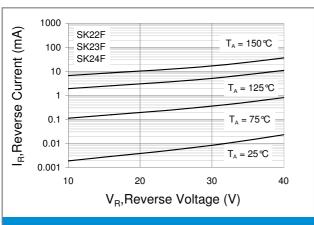
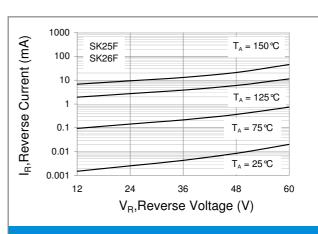
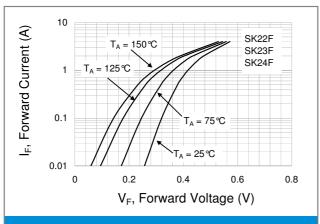


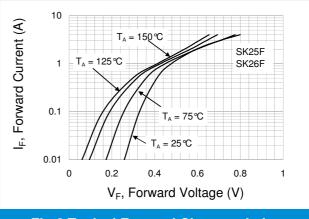
Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Reverse Characteristics** 



**Fig.5 Typical Forward Characteristics** 

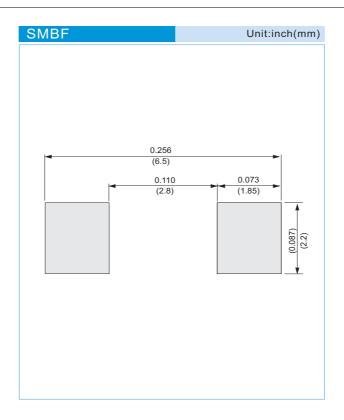


**Fig.6 Typical Forward Characteristics** 





#### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

· Packing information

T/R - 5K per 13" plastic Reel

### **LEGAL STATEMENT**

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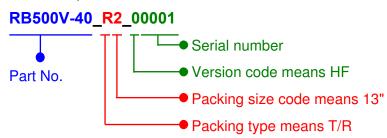
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## Part No\_packing code\_Version

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
T/B	Α	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	В	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			