



LOW VF SCHOTTKY RECTIFIER

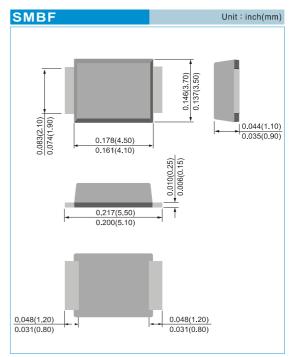
VOLTAGE 40 Volt CURRENT 5 Ampere

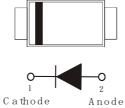
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing
 Flame Retardant Expoxy Molding Compound
- Ultra Thin Profile Package for Space Constrained Utilization
- Package suitable for Automated Handling
- 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 (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	40	V
RMS Voltage	V _{RMS}	28	V
DC Blocking Voltage	V _R	40	V
Average Forward Rectified Current	I _{F(AV)}	5	А
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100	А
Typical Thermal Resistance , Junction to Ambient (Note 2) Junction to Lead (Note 1)	$R_{_{ heta JA}} \ R_{_{ heta JL}}$	135 19	°C/W
Typical Junction Capacitance at VR=4V, f=1MHz	CJ	430	pF
Operating Junction Temperature and Storage Temperature Range	T_{J},T_{STG}	-55 to +150	°C

NOTES

- 1. Mounted on FR-4 PCB, single-sided copper, with 100cm² copper pad area.
- 2. Mounted on FR-4 PCB single-sided copper, mini pad.





ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Break down voltage	VBR	I R=1mA	Ta=25°C	40	-	-	٧
Instantaneous forward voltage	VF	I F=1A I F=2.5A I F=5A	Ta=25°C	-	0.35 0.39 0.44	- - 0.46	V
			Ta=125°C	-	0.22 0.28 0.36	- - -	٧
Reverse current	l R	VR=32V	Ta=25°C		32	-	μΑ
		V _R =40V	Ta=25°C Ta=125°C	-	- 60	100 -	uA mA





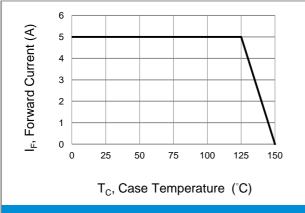


Fig.1 Forward Current Derating Curve

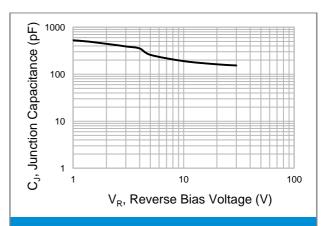


Fig.2 Typical Junction Capacitance

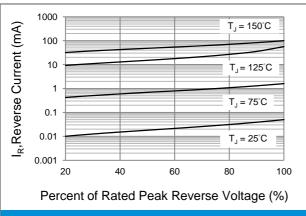


Fig.3 Typical Reverse Characteristics

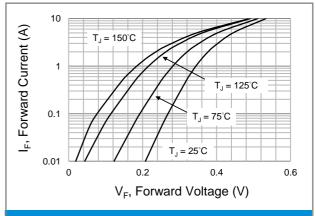


Fig.4 Typical Forward Characteristics

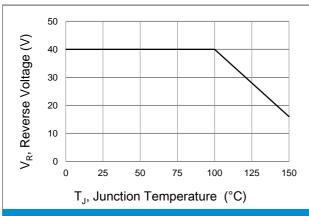
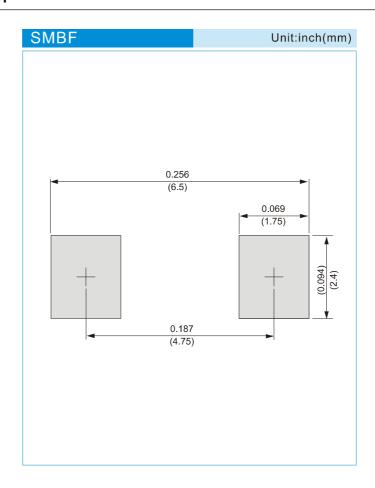


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SK54BLF_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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	Х			
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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