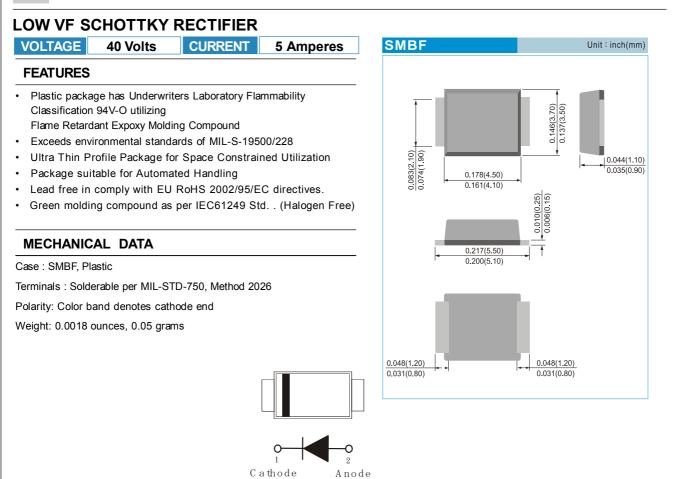


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MAXIMUM RATINGS (TA=25°C unless otherwise noted)

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	Α
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{fsm}	100	А
Typical Thermal Resistance , Junction to Ambient (Note 2) Junction to Lead (Note 1)	$f R_{_{ heta JA}} \ R_{_{ heta JL}}$	135 19	°C/W
Typical Junction Capacitance at VR=4V, f=1MHz	C	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.



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

PARAMETER	SYMBOL	TEST CO	ONDITIONS	MIN.	TYP.	MAX.	UNIT
Break down voltage	VBR	I R=1mA	T₄=25°C	40	-	-	V
Instantaneous forward voltage	VF	F=1A F=2.5A F=5A F=1A F=2.5A F=5A	Ta=25°C Ta=125°C	- - -	0.35 0.39 0.44 0.22 0.28 0.36	- - 0.46 - - -	v v
Designed		V _R =32V	TA=25°C	-	32	-	μΑ
Reverse current	IR	VR = 40V	Ta=25°C Ta=125°C	-	- 60	100 -	uA mA

RATING AND CHARACTERISTIC CURVES

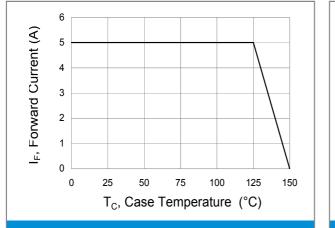
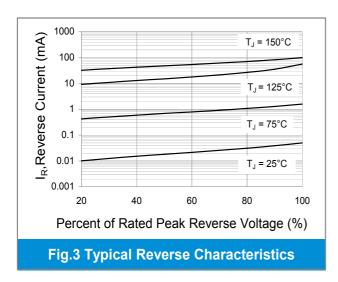


Fig.1 Forward Current Derating Curve



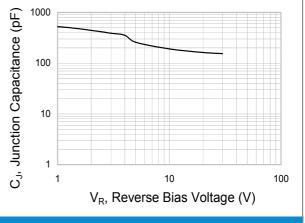


Fig.2 Typical Junction Capacitance

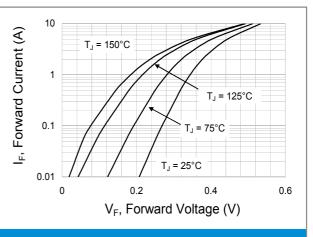
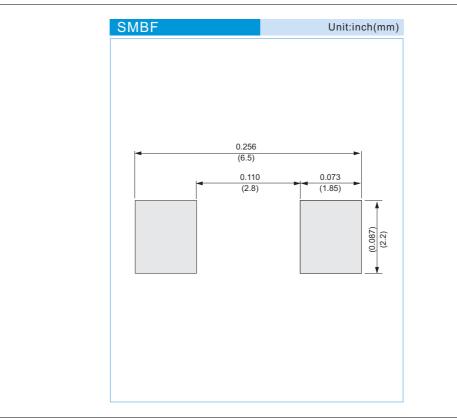


Fig.4 Typical Forward Characteristics



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 5K per 13" plastic Reel



0010001011							
SK54B	_F						
Part No_pack SK54BLF_R2_	-	e_Versi	on				
For example RB500V-40 Part No.			rial number rsion code means HF cking size code means 13" cking type means T/R				
		Packin	g Code <mark>XX</mark>		Versi	on Code	XXXXX
Packing	уре	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammu	inition Box		NI/A	•		•	and a second second

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	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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