

45V 5.0A SMBF

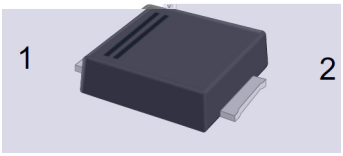
Surface Mount Schottky Barrier Rectifier, Reverse Voltage:45V,Forward Current:5.0A,SMBF thin package.

Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications,For surface mounted applications.Halogen free product.

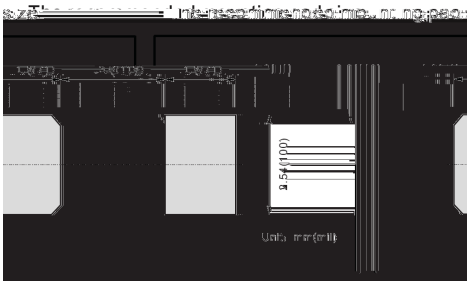
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General purpose.





PIN	DESCRIPTION
1	Cathode
2	Anode



Type number	Marking code
[illegible]	[illegible]

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Maximum DC Blocking Voltage	V_R	45	V
Maximum RMS voltage	V_{RMS}	32	V

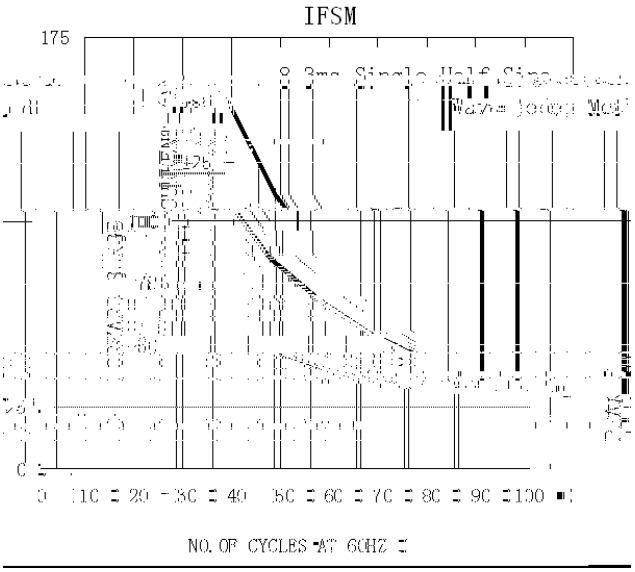
Notes:

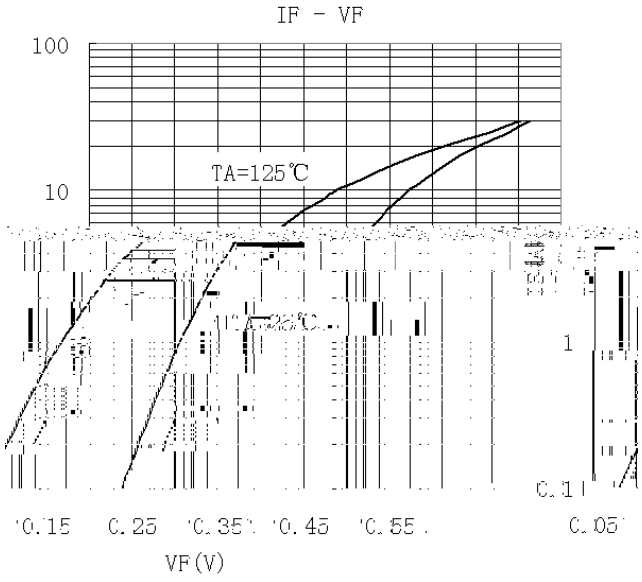
1) Mounted at 1MHz and applied reverse voltage of 4V D.C.

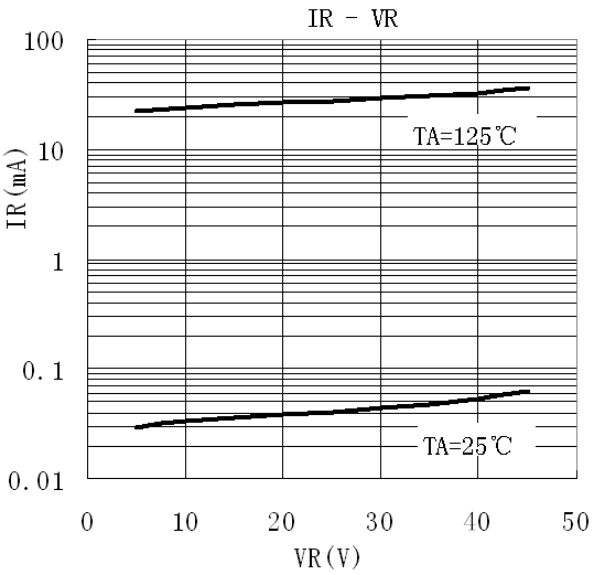
2) Mounted on a FR4 PCB, single-sided copper, mini pad.

Parameter	Symbol	Test condition	Rating			Unit
			MIN.	TYP.	MAX.	
Breakdown Voltage	V_{BR}	I_R=0.5mA Ta=25	45			V
Max Instantaneous Forward Voltage	V_F	I_F=1.0A Ta=25		0.30		V
		I_F=1.0A Ta=125		0.18		
		I_F=5.0A Ta=25		0.39	0.43	
		I_F=5.0A Ta=125		0.29		
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	V_R=36V T_a=25		30		μA
		V_R=45V T_a=25			210	μA
		V_R=45V T_a=125		19		mA

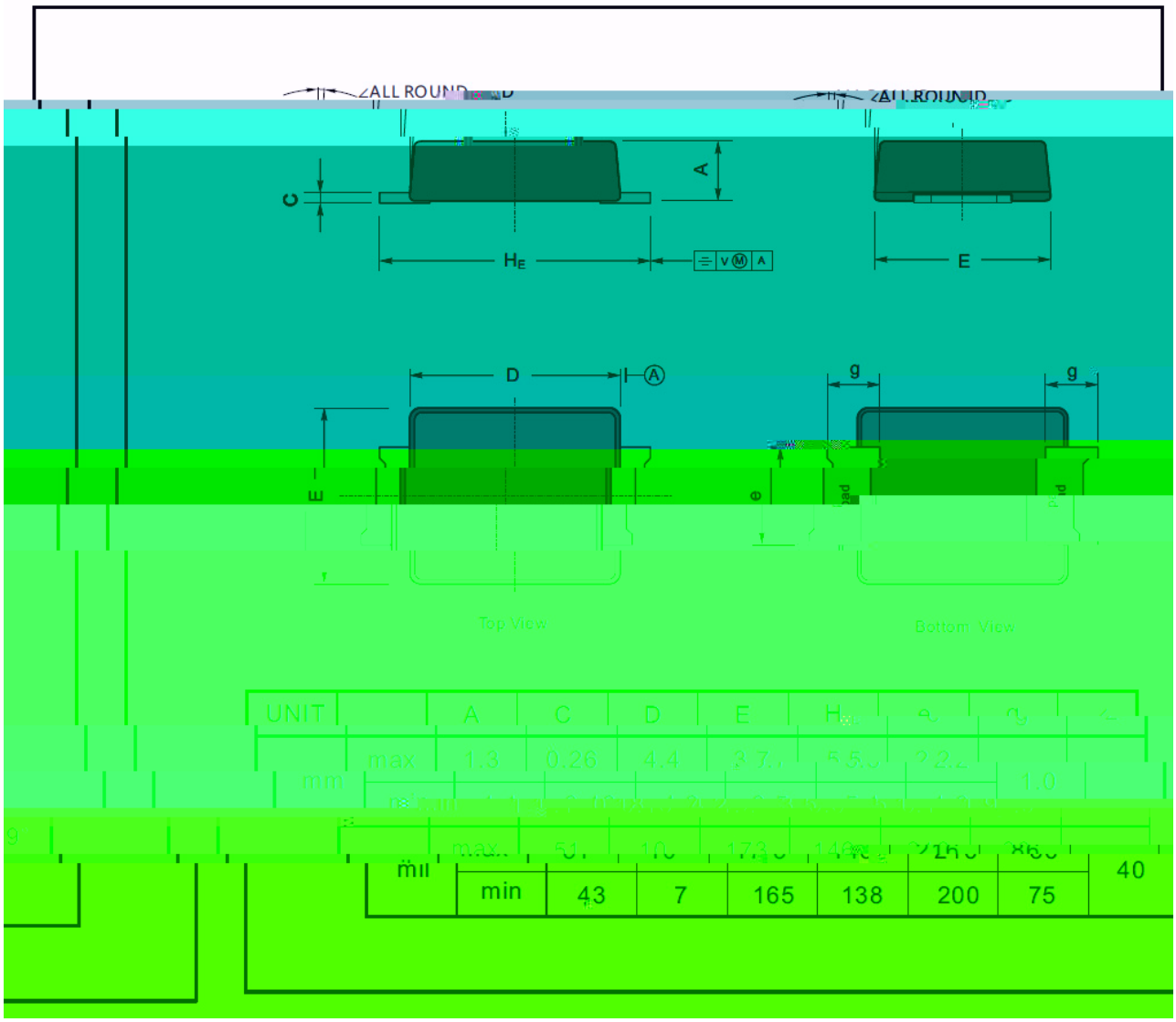



IFSM
175
NO. OF CYCLES AT 60HZ

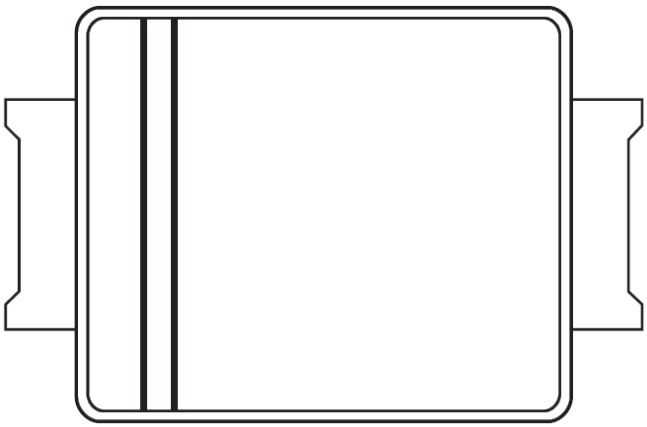

IF - VF
100
10
TA=125℃
1
0.1
0.15
0.25
0.35
0.45
0.55
0.05
VF(V)


IR - VR
100
10
1
0.1
0.01
IR(mA)
TA=125℃
TA=25℃
0
10
20
30
40
50
VR(V)

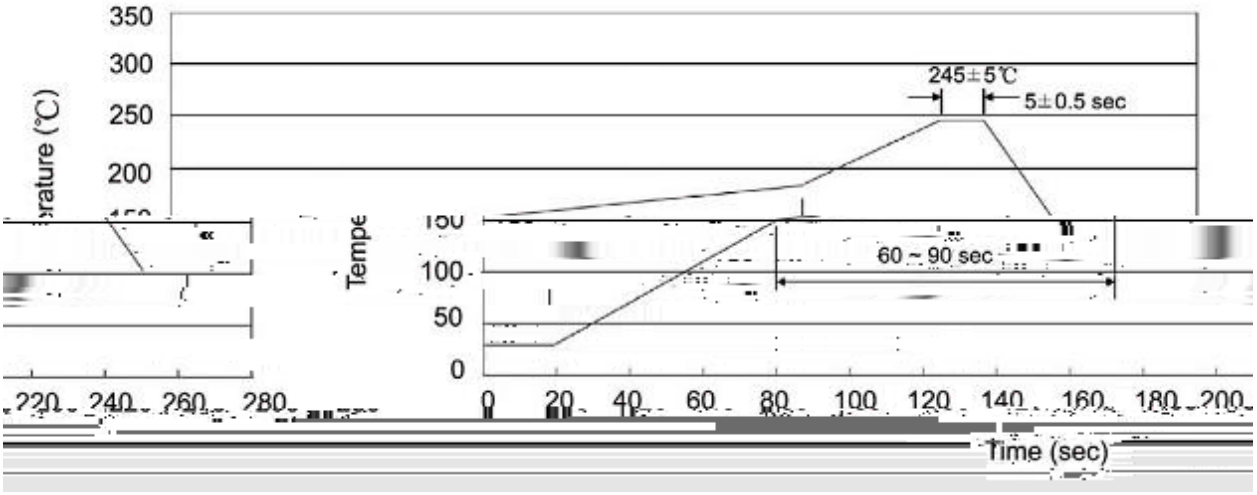
SMBF



UNIT	A	C	D	E	H_E	g	g	
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0
mil	min	43	7	165	138	200	75	40



Wh p shrdwxrh Prriioh irr IU Uhiorw Vroghriqj+Pe-Frhh,



Note:

1	150 180 60 90sec;	1.Preheating:150~180 , Time:60~90sec.	
2	245±5 5±0.5sec;	2.Peak Temp.:245±5 , Duration:5±0.5sec.	
3	2 10 /sec.	3. Cooling Speed: 2~10 /sec.	

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type	Units	Dimension	(unit mm^3)