

/ Descriptions

45V 5.0A SMBF

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

/ Features

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.

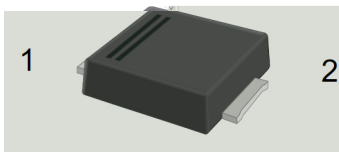
/ Applications

General purpose.

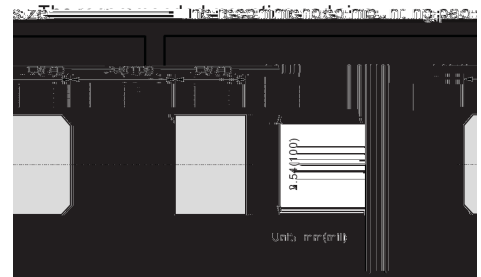
/ Equivalent Circuit



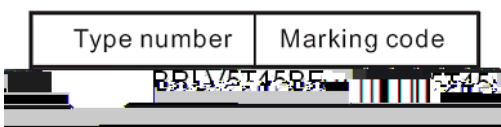
/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



/ Marking



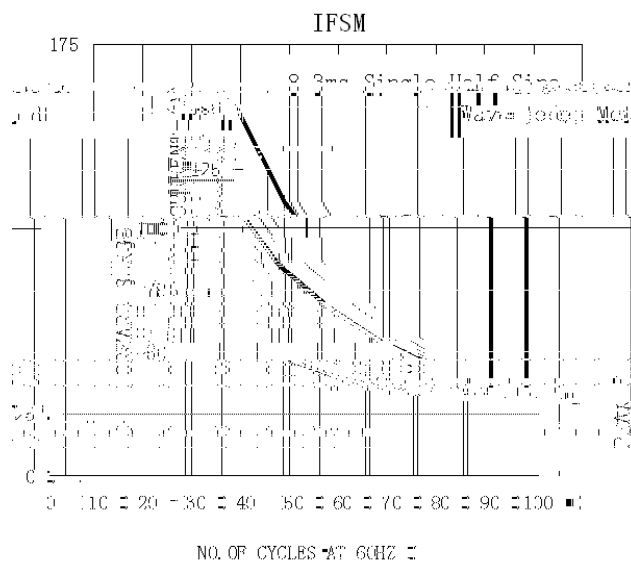
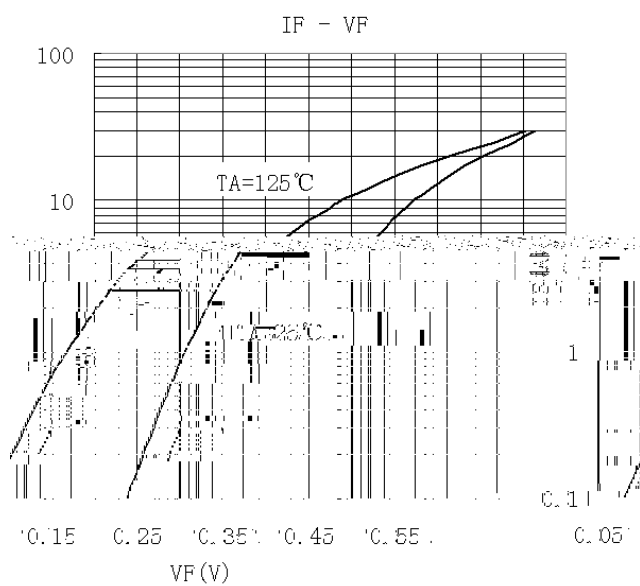
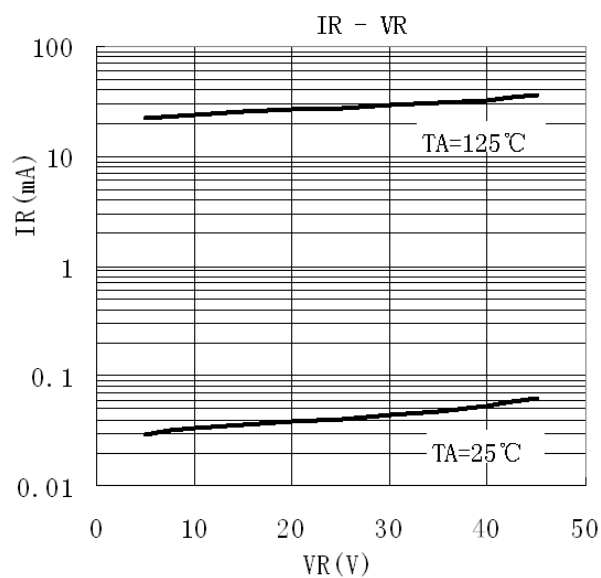
/ Absolute Maximum Ratings(Ta=25)

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}		

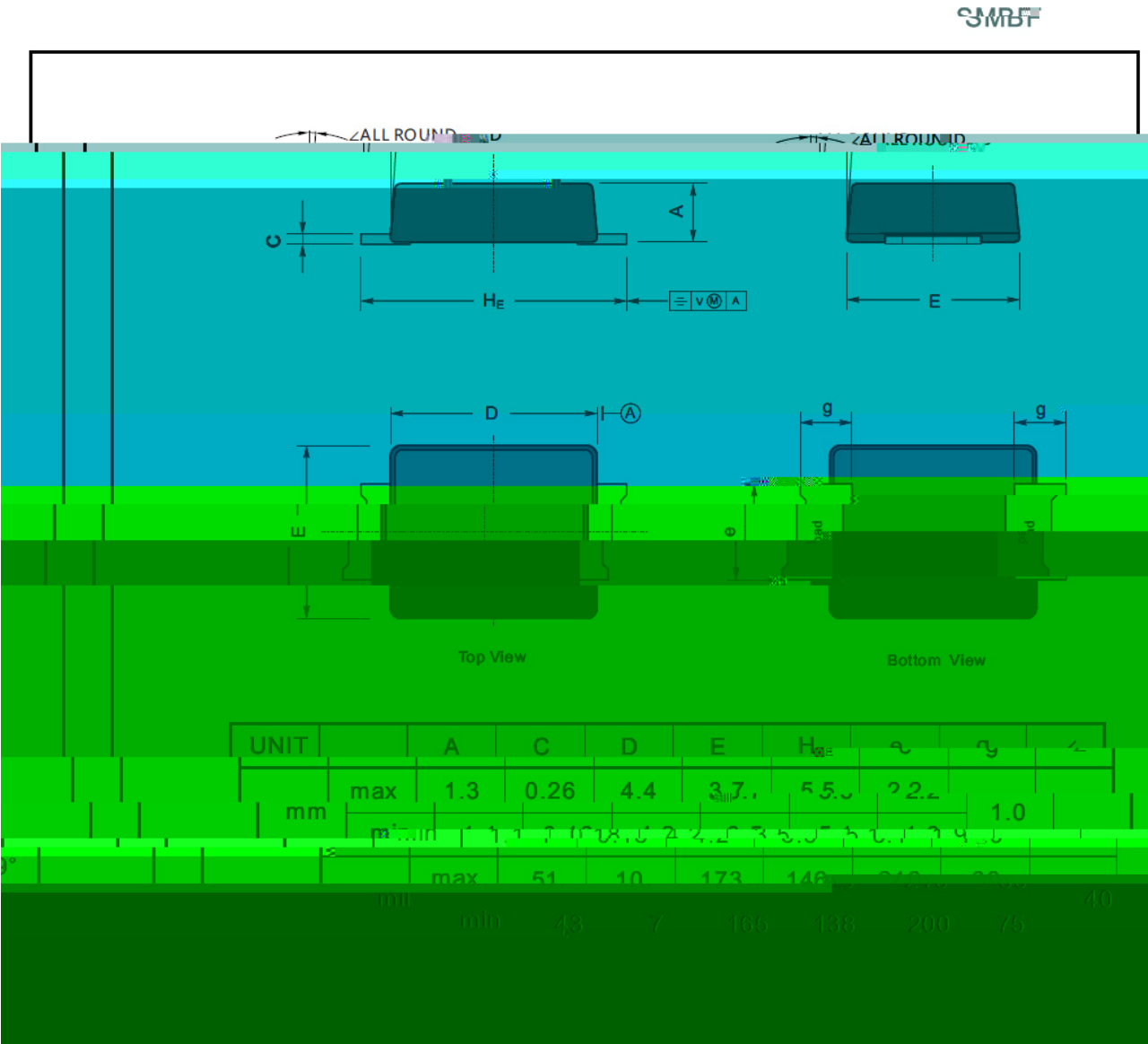
Notes:

- 1) Mounted at 1MHz and applied reverse voltage of 4V D.C.
- 2) Mounted on a FR4 PCB, single-sided copper, mini pad.

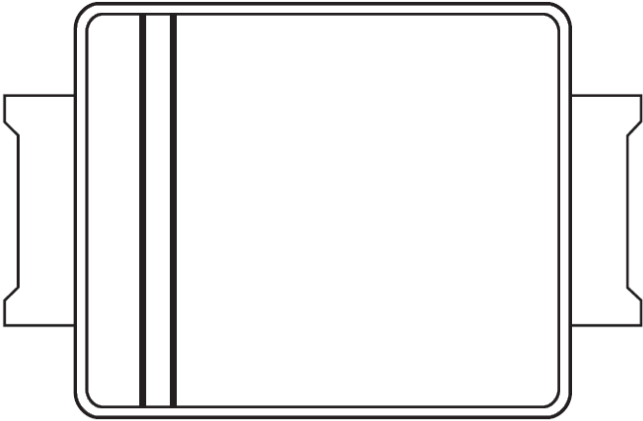
Parameter	Symbol	Test condition	Rating			Unit
			MIN.	TYP.	MAX.	
Breakdown Voltage	V_{BR}	$I_R=0.5mA$ $T_a=25$	45			V
Max Instantaneous Forward Voltage	V_F	$I_F=1.0A$ $T_a=25$		0.30		V
		$I_F=1.0A$ $T_a=125$		0.18		
		$I_F=5.0A$ $T_a=25$		0.39	0.43	
		$I_F=5.0A$ $T_a=125$		0.29		
Maximum DC Reverse Current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

[illegible]

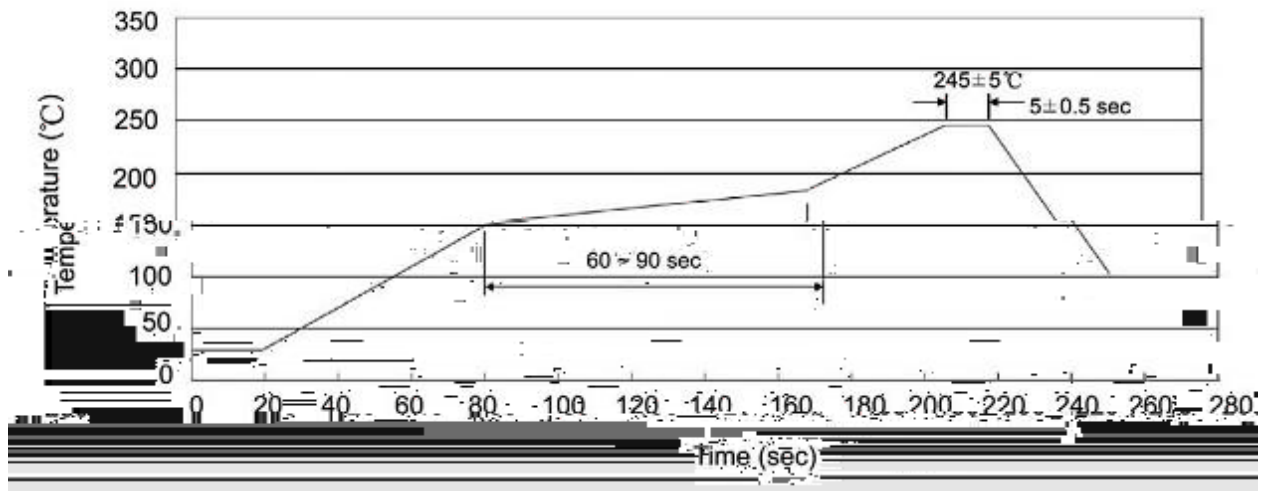
/ Package Dimensions



β In)5(structionsT4 1 T1242 1 1.57 TcD Tc0 T(w)TET0 1.47 0 D)TETT*



() / Whp shrdwxrh Prr iioh i rr IU Uhi orw Vroghriq j +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. |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm ³)
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