

Schottky Barrier Rectifiers**Reverse Voltage 20 to100V Forward Current 5.0A****FEATURES**

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low power loss,high efficiency
- * For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- * Guardring for over voltage protection
- * High temperature soldering guaranteed: 260°C/10 seconds at terminals

Mechanical Data**Case:** JEDEC SMBF

molded plastic over glass die

Terminals: Plated leads, solderable per MIL-STD-750, Method 2026**Polarity:** Color band denotes cathode end**Mounting Position:** Any**Weight:** 0.066 g**Handling precaution:** None**Electrical Characteristic****1. Maximum Ratings & Thermal Characteristics Ratings** at 25°C ambient temperature unless otherwise specified.

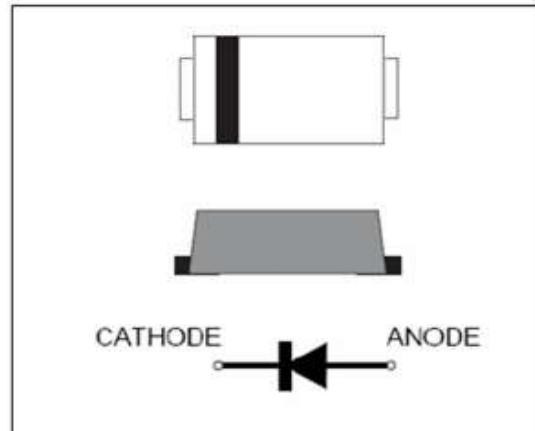
Parameter Symbol	symbol	SS52BF	SS53BF	SS54BF	SS545BF	SS55BF	SS56BF	SS58BF	SS510BF	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	45	50	60	80	100	V
Maximum RSM voltage	V _{RSM}	14	21	28	31.5	35	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	45	50	60	80	100	V
Maximum average forward rectified current lead length at TC = 75°C	I _{F(AV)}						5.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}						100			A
Typical thermal resistance (Note1)	R _{0JA} R _{0JC}				135	25				°C/W
Operating junction and storage temperature range	T _J , T _{STG}				–40 to +150					°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	SS52BF	SS53BF	SS54BF	SS545BF	SS55BF	SS56BF	SS58BF	SS510BF	Unit
Maximum instantaneous forward voltage at 5.0A	V _F		0.50			0.70		0.85		V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TJ = 100°C	I _R			0.5	10.0					mA
Typical junction capacitance at 4.0V, 1MHz	C _J			110						PF

NOTES:

1. 8.0mm² (.013mm thick) land areas



we declare that the material of product is halogen free (green epoxy compound).

2.Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

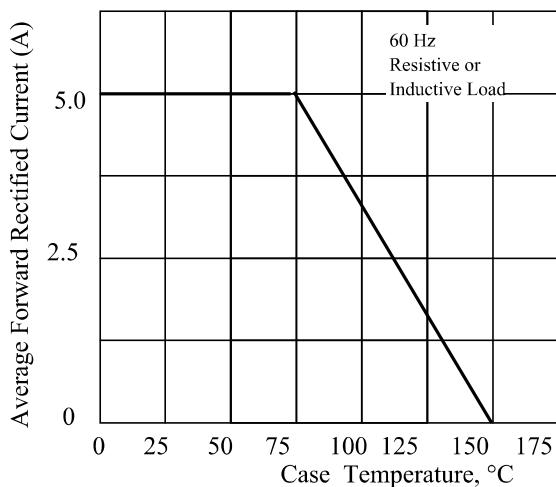


Fig. 3. - Typical Instantaneous Forward Characteristics

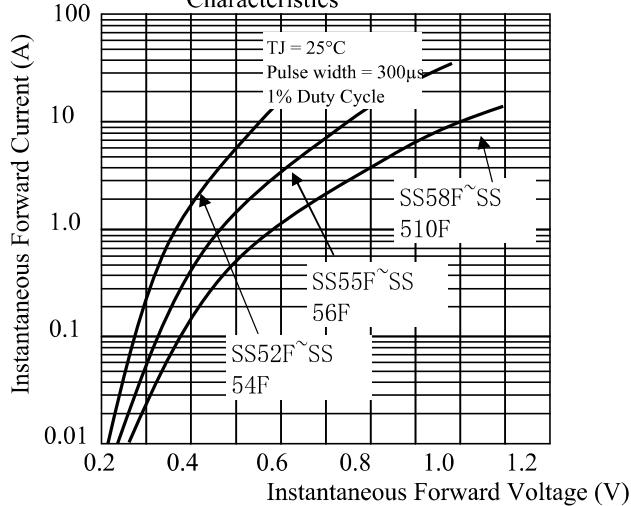


Fig 5. - typical transient thermal impedance

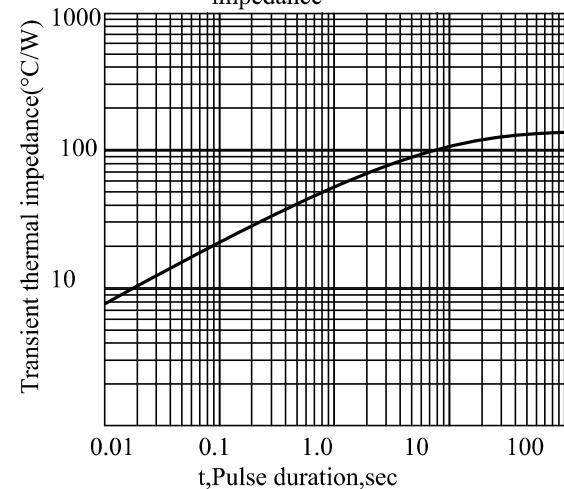


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

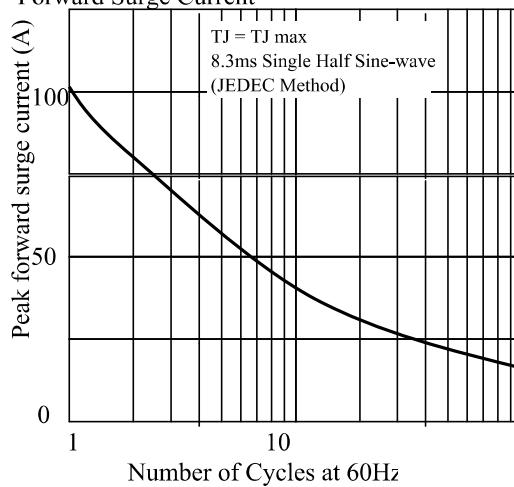


Fig 4. - Typical Reverse Characteristics

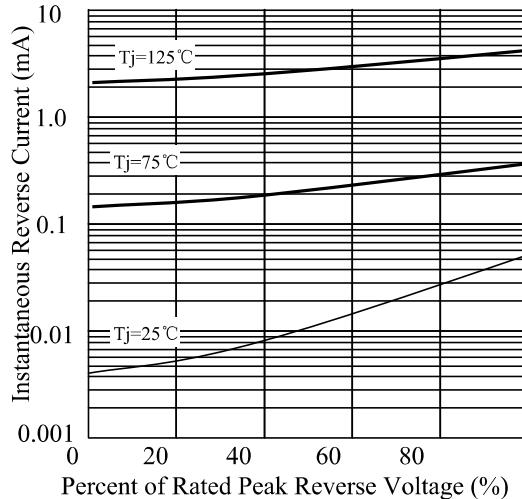
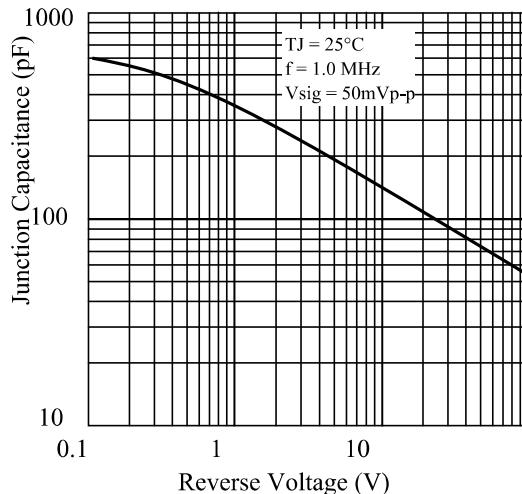


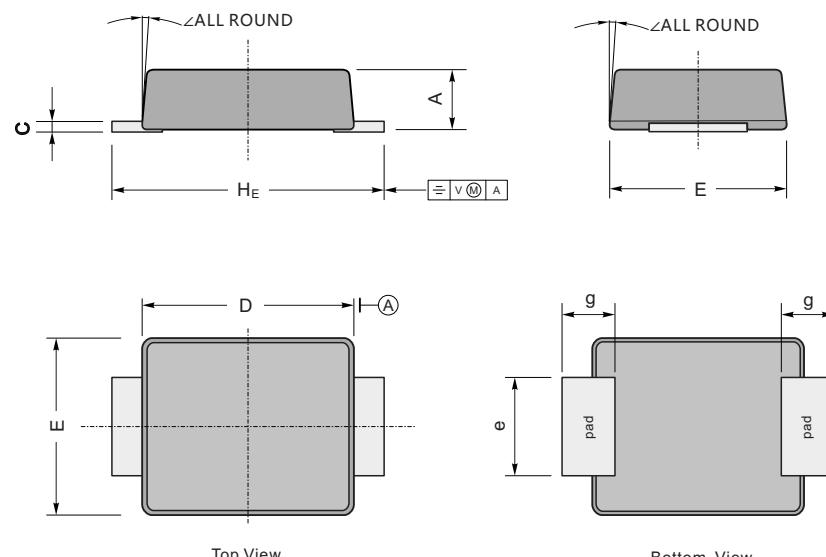
Fig 6. - Typical Junction Capacitance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



UNIT		A	C	D	E	H_E	e	g	\angle
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	9°
	min	1.1	0.18	4.2	3.5	5.1	1.9		
mil	max	51	10	173	146	216	86	40	9°
	min	43	7	165	138	200	75		

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