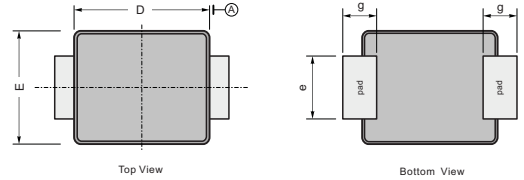
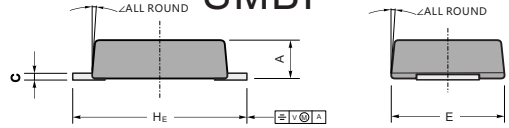




SMBF



Features

- ✧ For surface mounted application
- ✧ Easy pick and place
- ✧ Metal to silicon rectifier, majority carrier conduction
- ✧ Low power loss, high efficiency
- ✧ High current capability, low VF
- ✧ High surge current capability
- ✧ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ✧ Epitaxial construction
- ✧ High temperature soldering: 260°C / 10 seconds at terminals

Mechanical Data

- ✧ Case: JEDEC SMA/DO-214AC Molded plastic
- ✧ Terminals: Pure tin plated, lead free
- ✧ Polarity: Indicated by cathode band

UNIT		A	C	D	E	He	e	g	∠
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	
	min	43	7	165	138	200	75		

Dimensions in inches and(millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

Parameter	SYMBOL	SS 32BF	SS 33BF	SS 34BF	SS 35BF	SS 36BF	SS 38BF	SS 39BF	SS 310BF	SS 315BF	SS 320BF	UNITS
Marking code		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	SS315	SS320	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	90	100	150	200	V
Maximum RMS voltage	V_{RWS}	14	21	28	35	42	56	63	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	90	100	150	200	V
Maximum average forward rectified current (see fig1)	$I_{F(AV)}$	3										A
Peak forward surge current 8.3ms half-sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	100					80					A
I^2t Rating for Fusing($t < 8.3ms$)	I^2t	41.5					20.335					A ² s
Maximum Forward Voltage @ $I_{F(AV)}$ (Pulse test:300 μ s pulse width,1% duty cycle)	V_F	0.55			0.70		0.85					V
Maximum DC Reverse current @Rated DC Blocking Voltage (Pulse test:Pulse width 40ms)	T=25°C	I_R					500					μ A
	T=100°C	I_R					5					mA
	T=125°C	I_R					10					mA
Typical Thermal Resistance (Device mounted on PCB with 10mm×20mm×0.1mm copper pad area)	$R_{\theta JA}$	65										°C/W
	$R_{\theta JC}$	16										
	$R_{\theta JL}$	15										
Junction temperature range	T_J	-55~150					-55~175					°C
Storage temperature range	T_{STG}	-55~150					-55~175					°C



RATINGS AND CHARACTERISTIC CURVES (SS32B THRU SS320B)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

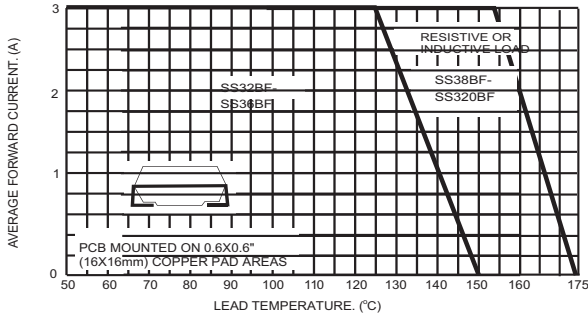


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

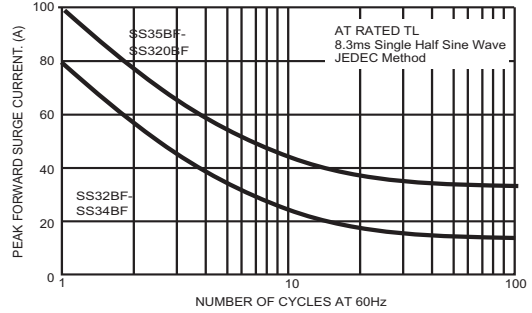


FIG.3- TYPICAL FORWARD CHARACTERISTICS

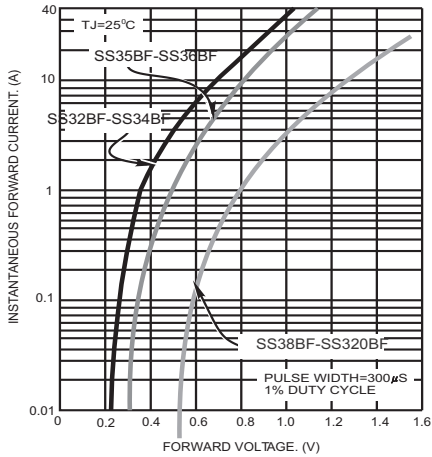


FIG.4- TYPICAL REVERSE CHARACTERISTICS

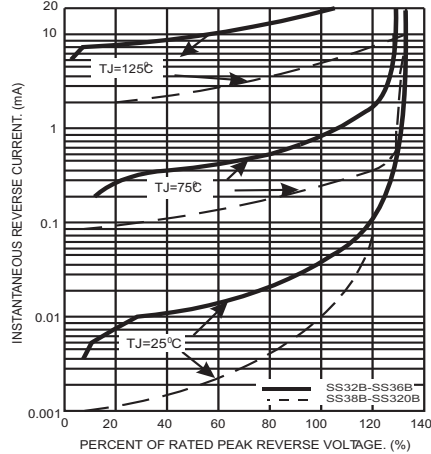


FIG.5- TYPICAL JUNCTION CAPACITANCE

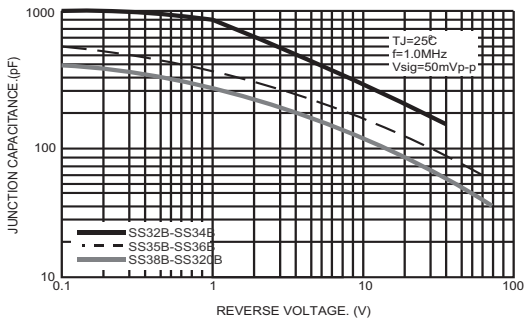
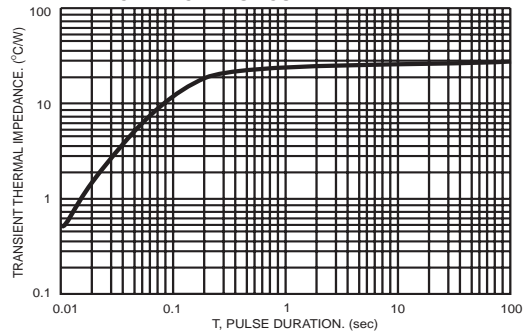


FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMBF	5000/REEL	8000	36X35.8X36.5	12.00	11.00