

Features

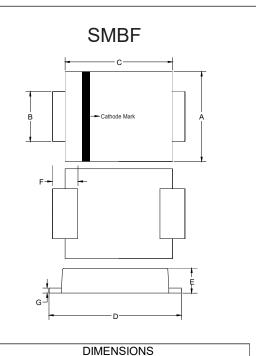
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- Halogen Free. "Green" Device (Note 1)
- Low Profile Package
- For Surface Mount Applications
- High Forward Surge Capability
- Glass Passivated Chip Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

3 Amp General Purpose Rectifier 600 to 1000 Volts

Parameter	Symphol	Value		Unit
Farameter	Symbol	S3JBFL	S3MBFL	Unit
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM}	600	1000	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	420	700	V
Average Rectified Forward Current @ $T_L=85^{\circ}C$	I _{F(AV)}	3		А
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	10	0	Α
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	200		A
Current Squared Time @1ms≤t≤8.3ms	l ² t	41.	5	A ² s



MM

MAX

3.80

2.10

4.45

5.60

MIN

3.40

1.90

4.15

5.10

NOTE

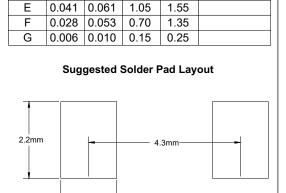
Part Number	Marking Code	
S3JBFL	S3JB	
S3MBFL	S3MB	

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
		1 MCC 2	
2	Anode		1 oo 2
		XXXX = Marking Code	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.



INCHES

0.134 0.150

0.075 0.083

MAX

0.175

0.220

- 1.9mm --

MIN

0.163

0.201

DIM

A

В

С

D



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		60		°C/W

Note:

1.Mounted on P.C.B. with 8mm*8mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =3A;T _J =25°C			1.10	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	μΑ
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		25		pF



Curve Characteristics

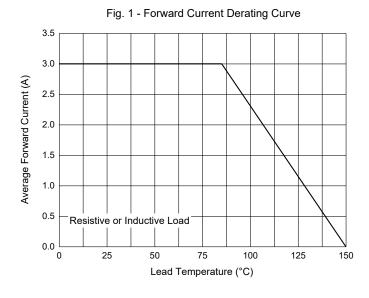


Fig. 3 - Typical Forward Characteristics

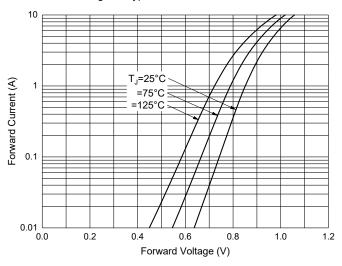
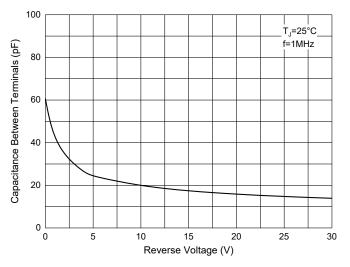


Fig. 5 - Typical Capacitance Characteristics



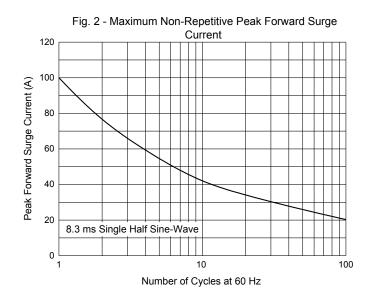
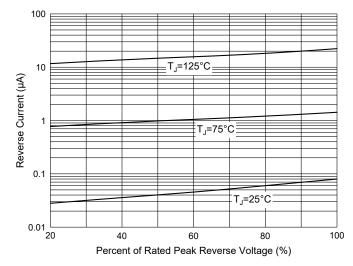


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel

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