

Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Forward Surge Capability
- 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)

Parameter	Symbol	Value						l lmi4	
		S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ T _L =80°C	I _{F(AV)}	3				А			
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	100				Α			
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	200							
Current Squared Time @1ms≤t≤8.3ms	I ² t	41.5			A ² s				

Marking code

Part Number	Marking code
S3AB	S3AB
S3BB	S3BB
S3DB	S3DB
S3GB	S3GB
S3JB	S3JB
S3KB	S3KB
S3MB	S3MB

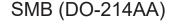
Internal Structure

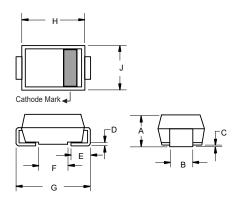
Pin	Description	Simplified outline	Graphic symbol
1	cathode	1 MCC 2	
2	anode	XXXX = Marking code	1 ∘

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.

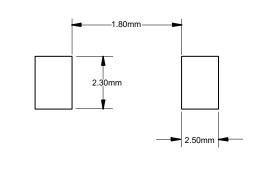
3 Amp General Purpose Rectifier 50 to 1000 Volts





DIMENSIONS							
DIM	INCHES		М	M	NOTE		
Diivi	MIN	MAX	MIN	MAX	NOTE		
Α	0.079	0.103	2.00	2.62			
В	0.075	0.087	1.91	2.21			
С	0.002	0.008	0.05	0.20			
D	0.006	0.012	0.15	0.31			
Е	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.200	0.220	5.08	5.59			
Н	0.160	0.191	4.06	4.85			
J	0.130	0.155	3.30	3.94			

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	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		70		°C/W

Note:

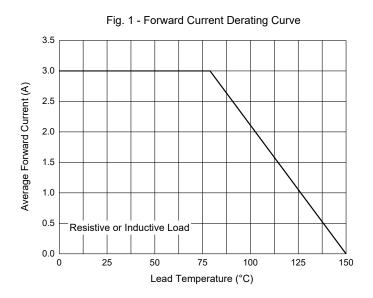
Electrical Characteristics @ 25°C Unless Otherwise Specified

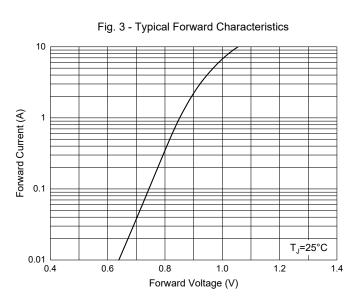
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =3A;T _J =25°C			1.10	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 100	uA
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		25		pF

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



Curve Characteristics





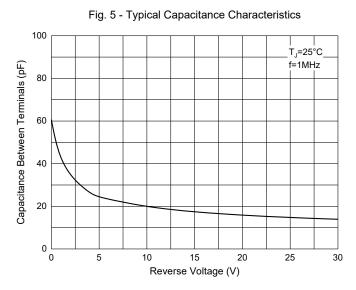


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

100

80

60

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

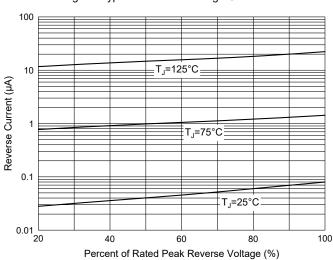


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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