

1.0A Surface Mount Schottky Rectifier

Features

- Low Profile in SMB Package
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250° C/10 seconds, at termina
- RoHS compliant



SMB
(DO-214AA)

Mechanical Data

Case:	JEDEC DO-214AA, Molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solder plated, solderable per MIL-STD-750D, Method 2026
Polarity	Color band denotes the cathode end
Weight:	0.003 ounce, 0.093 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbols	Description	SS 12B	SS 13B	SS 14B	SS 15B	SS 16B	SS 19B	SS 110B	Unit	Conditions
	Marking Code	S12	S13	S14	S15	S16	S19	S110		
		SS 12B	SS 13B	SS 14B	SS 15B	SS 16B	SS 19B	SS 110B		
VRMS	Maximum RMS voltage	14	21	28	35	42	63	70	V	
VRRM	Maximum repetitive peak reverse voltage	20	30	40	50	60	90	100	V	
VDC	Maximum DC blocking voltage	20	30	40	50	60	90	100	V	
I(AV)	Maximum average forward rectified current (FIG.1)	1.0							A	
IFSM	Peak forward surge current (JEDEC Method)	30							A	8.3ms single half sine-wave superimposed on rated load
VF	Maximum instantaneous forward voltage at 3.0A	0.55		0.75		0.85		V	$I(AV)=1.0A$	
IR	Maximum DC reverse current at rated DC blocking voltage	0.5							mA	$T_a=25^{\circ}C$
		10								$T_a=100^{\circ}C$
RθJA RθJL	Maximum thermal resistance, Junction to Ambient	88							° C/W	
		28								
TJ	Operating junction temperature range	-65 to +125			-65 to +150				° C	
TSTG	Storage Temperature Range	-65 to +150							° C	

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SS12B - SS110B

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

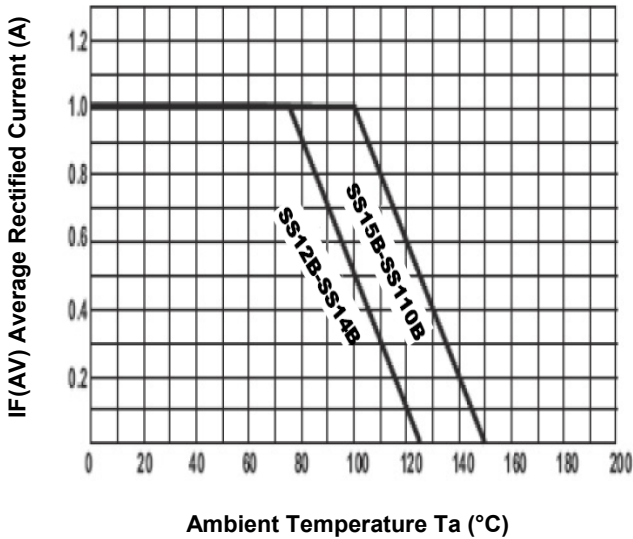


Fig.2- Max. Non-Repetitive Forward Surge Current

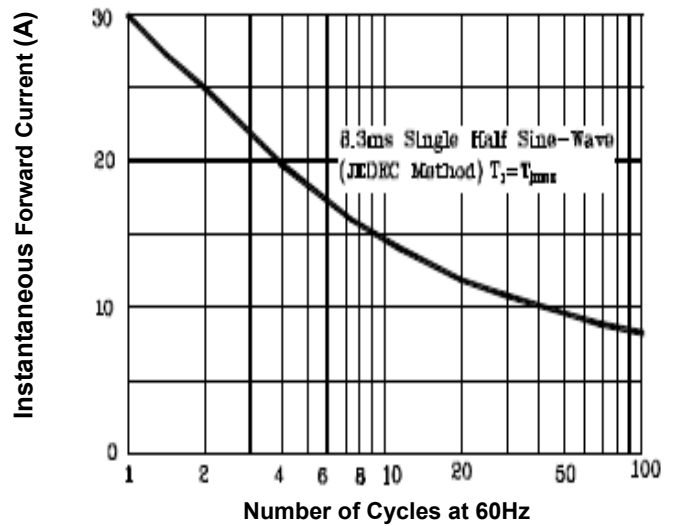


Fig.3- Typical Forward Characteristics

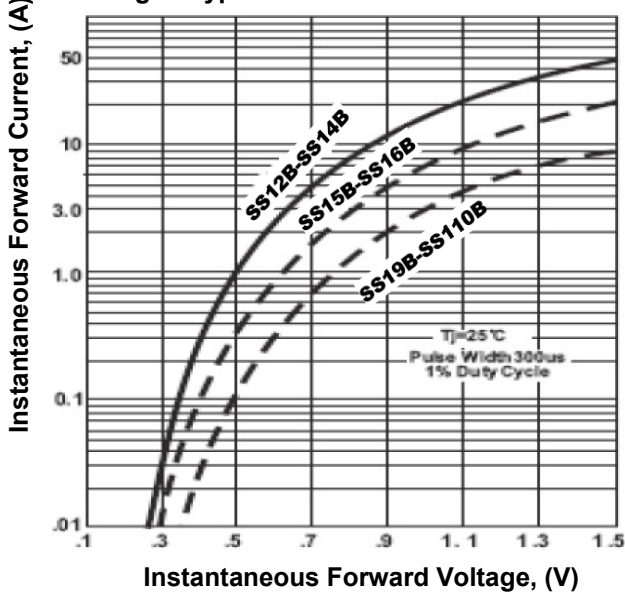
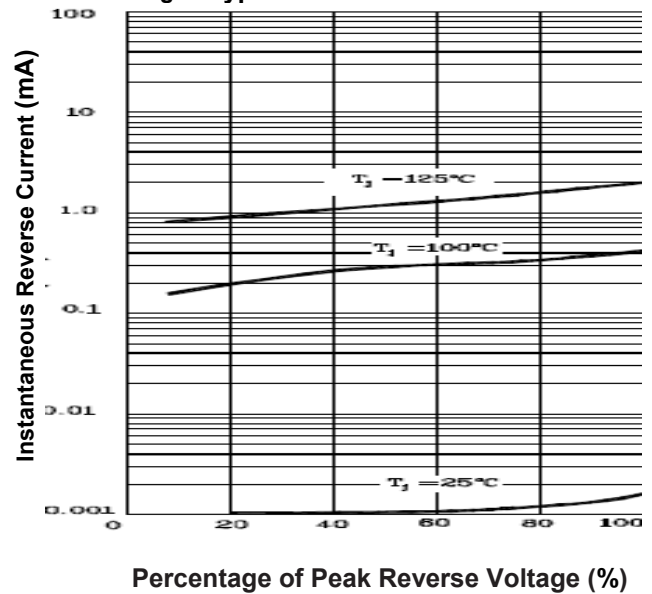


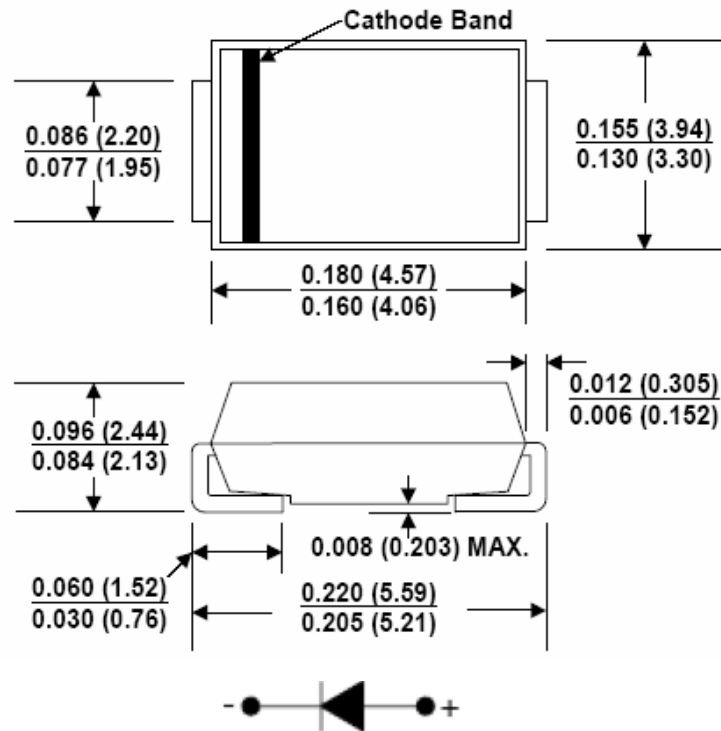
Fig.4- Typical Reverse Characteristics



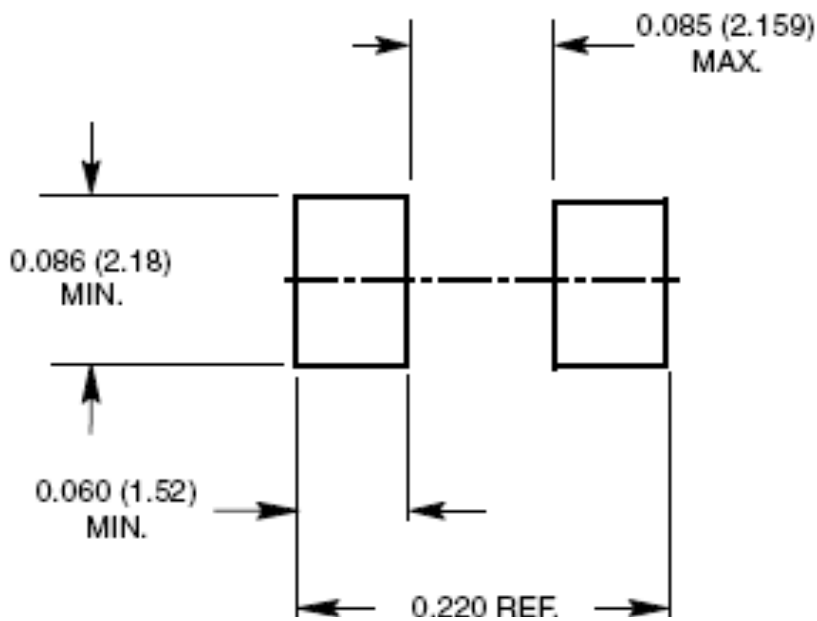
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Dimensions in inch (mm)



Soldering Pad in inch (mm)



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Ordering Information

SS 1 X B - XX - XX

Packing Code
TR70: 7" Tape & Reel, RoHS
TR30: 13" Tape & Reel, RoHS

Factory Location Code

SMB Body

Voltage Rating

Current Rating: 1A

Schottky Rectifier

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931