



S3DA SERIES

SURFACE GENERAL PURPOSE RECTIFIER

Voltage

200~1000 V

Current

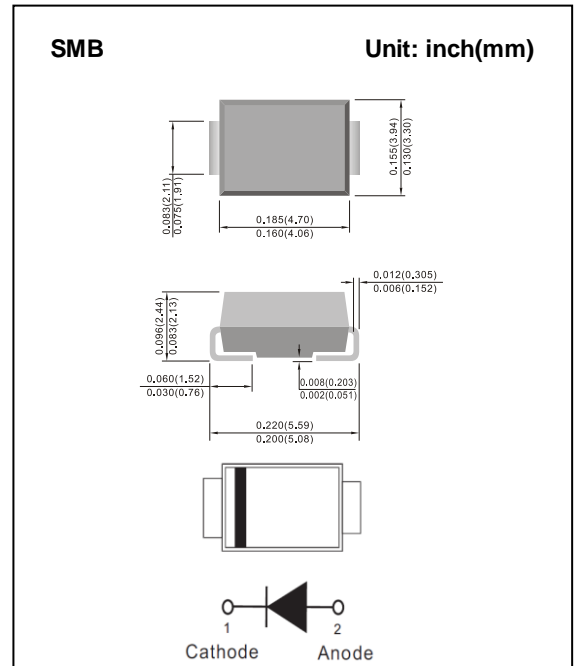
3 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Easy pick and place
- Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SMB package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.0032 ounces, 0.092 grams



Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	S3DA	S3GA	S3JA	S3KA	S3MA	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V	
Maximum rms voltage	V_{RMS}	140	280	420	560	700	V	
Maximum dc blocking voltage	V_R	200	400	600	800	1000	V	
Maximum average forward rectified current	$I_{F(AV)}$	3					A	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200					A	
Maximum forward voltage at 3A	V_F	1.1					V	
Maximum dc reverse current at rated dc blocking voltage	I_R	1					μA	
Typical junction capacitance Measured at 1MHz and applied $V_R=4\text{V}$	C_J	35					pF	
Typical thermal resistance	(Note 1)	$R_{\theta JA}$	135					$^{\circ}\text{C/W}$
	(Note 2)	$R_{\theta JC}$	11					
	(Note 2)	$R_{\theta JL}$	14					
Operating junction temperature range	T_J	-55 to +150					$^{\circ}\text{C}$	
Storage temperature range	T_{STG}	-55 to +150					$^{\circ}\text{C}$	

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area



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TYPICAL CHARACTERISTIC CURVES

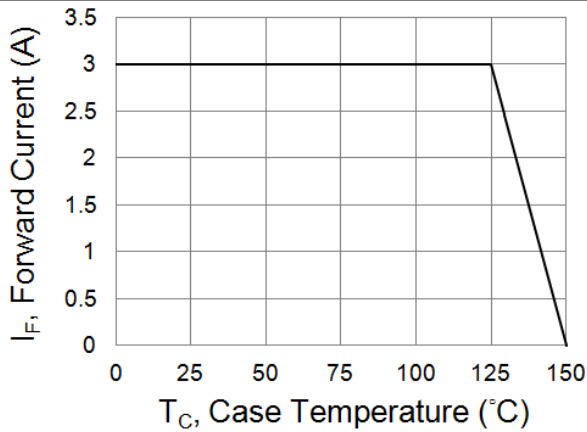


Fig.1 Forward Current Derating Curve

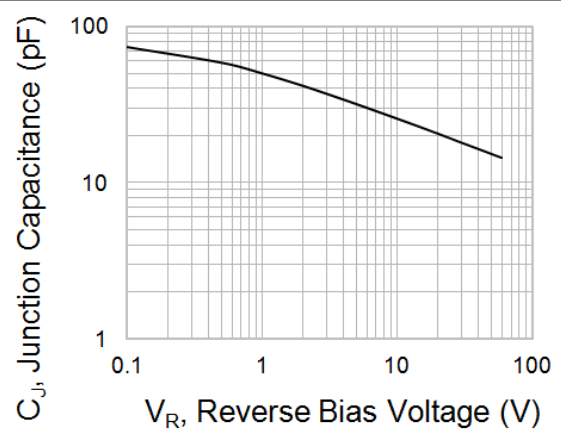


Fig.2 Typical Junction Capacitance

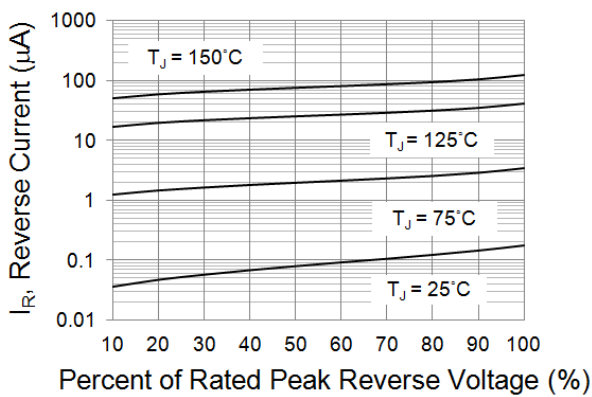


Fig.3 Typical Reverse Characteristics

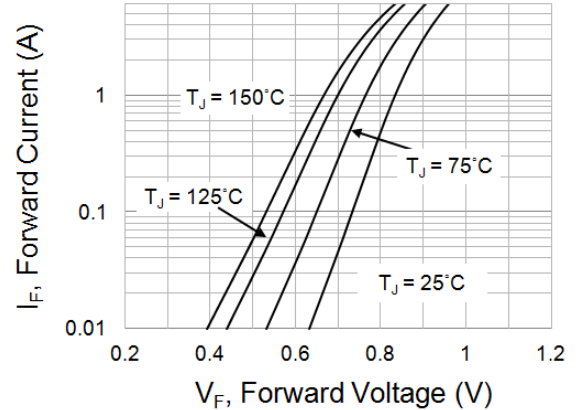


Fig.4 Typical Forward Characteristics

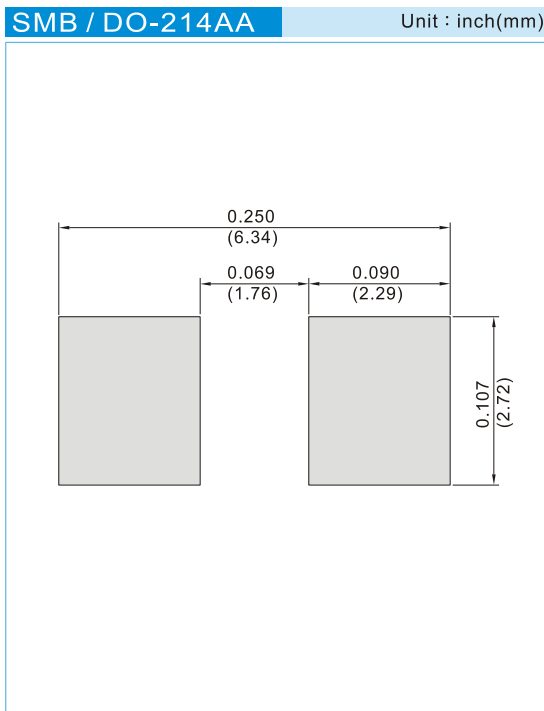


S3DA SERIES

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
S3DA_R1_00001	SMB	0.8K pcs / 7" reel	S3DA	Halogen free
S3DA_R2_00001	SMB	3K pcs / 13" reel	S3DA	Halogen free
S3GA_R1_00001	SMB	0.8K pcs / 7" reel	S3GA	Halogen free
S3GA_R2_00001	SMB	3K pcs / 13" reel	S3GA	Halogen free
S3JA_R1_00001	SMB	0.8K pcs / 7" reel	S3JA	Halogen free
S3JA_R2_00001	SMB	3K pcs / 13" reel	S3JA	Halogen free
S3KA_R1_00001	SMB	0.8K pcs / 7" reel	S3KA	Halogen free
S3KA_R2_00001	SMB	3K pcs / 13" reel	S3KA	Halogen free
S3MA_R1_00001	SMB	0.8K pcs / 7" reel	S3MA	Halogen free
S3MA_R2_00001	SMB	3K pcs / 13" reel	S3MA	Halogen free

Mounting Pad Layout





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