



Features:

- · For surface mounted application
- Glass passivated junction chip
- Low forward voltage drop
- · Easy pick and place
- High surge current capability
- High temperature soldering : 250°C/10 seconds at terminals

Specifications:

Diode Type : Standard Recovery

Diode Configuration : Single
Forward Current If(AV) : 3A
Forward Voltage VF Max. : 1.15V
Reverse Recovery Time t_{rr} Max : 2.5µs
Forward Surge Current IFSM Max : 100A
Diode Case Style : DO-214AB

No. of Pins : 2

Diode Polarity : Cathode
External Depth : 6.22mm
External Length / Height : 2.62mm
External Width : 7.11mm
Operating Temperature : 150°C
Termination Type : SMD

Mechanical Data:

Cases : Moulded plastic
Terminals : Solder plated

Polarity : Indicated by cathode band

Maximum Ratings and Electrical Characteristics:

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

Type Number	S3A	S3D	S3G	S3J	Unit
Maximum recurrent peak reverse voltage	50	200	400	600	
Maximum RMS voltage	35	140	280	420	V
Maximum DC blocking voltage	50	200	400	600	

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Type Number	S3A	S3D	S3G	S3J	Unit
Maximum average forward rectified current at T _L = 75°C	3				
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	100			A	
Maximum Instantaneous forward voltage at 3A	1.15			V	
Maximum DC reverse current at TA = 25°C at rated DC blocking voltage at TA = 125°C	10 250				μΑ
Maximum reverse recovery time (Note 1)	2.5				μS
Typical junction capacitance (Note 2)	60				pF
Operating temperature range T _J	-55 to +150			°C	
Storage temperature range T _{STG}				C	

Notes:

- 1. Reverse recovery test conditions: IF = 0.5A, IR = 1A, IRR = 0.25A
- 2. Measured at 1MHz and applied VR = 4V

Ratings and Characteristic Curves:

Figure 1 Maximum Forward Current Derating Curve

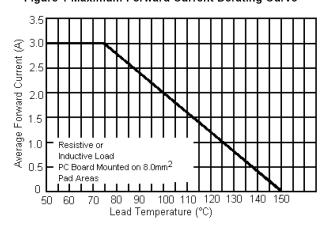


Figure 2 Maximum Non-Repetitive Forward Surge Current

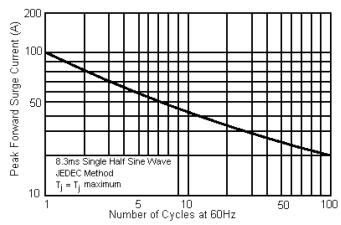






Figure 3 Typical Forward Characteristics

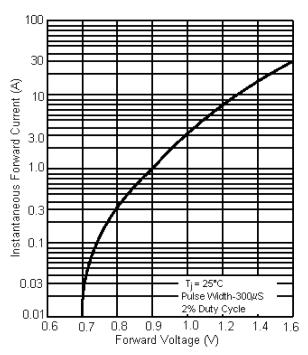


Figure 4 Typical Reverse Characteristics

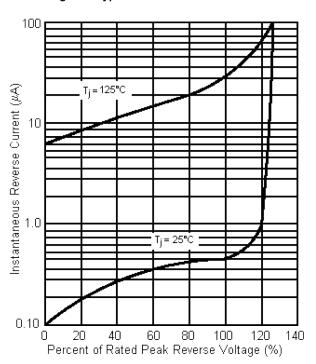
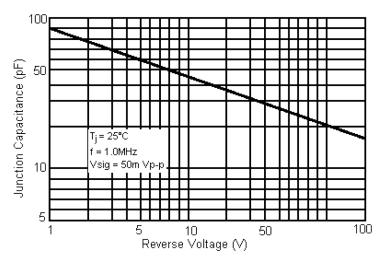
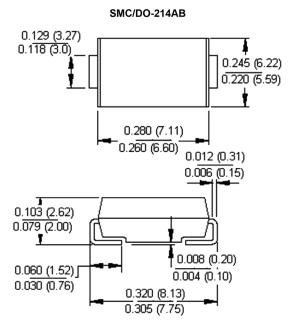


Figure 5 Typical Junction Capacitance

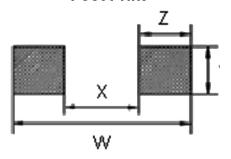






Dimensions: Inches (Millimetres)

Foot Print



Dimensions:

Length	Depth	Width	Х	Υ	Z	
8.13	2.62	6.22	5.08	3.2	1.52	

Dimensions: Millimetres

Part Number Table

Description	V _{RRM} maximum (V)	I _{AV} (A)	I _{FSM} (A)	V _F (V) at I _F = 1A at 25°C	Package	Part Number		
Diode, Standard, 3A, 50V, SMD	50	3				S3A		
Diode, Standard, 3A, 200V, SMD	200		3		100	1 15	DO 214AD (SMC)	S3D
Diode, Standard, 3A, 400V, SMD	400			100	1.15	DO-214AB (SMC)	S3G	
Diode, Standard, 3A, 600V, SMD	600				. [S3J		

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