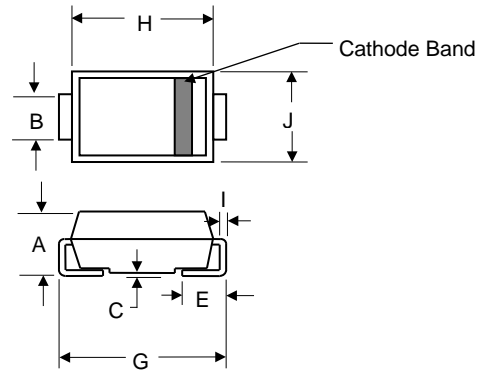


Features

- * Glass passivated chip junction
- * Ideal for automated placement
- * Low forward voltage drop
- * High current capability
- * High surge current capability



RoHS
COMPLIANT



DO-214AB (SMC)				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.079	0.103	2.06	2.62
B	0.114	0.126	2.9	3.2
C	---	0.008	---	0.203
E	0.03	0.06	0.76	1.52
G	0.305	0.320	7.75	8.13
H	0.260	0.280	6.60	7.11
I	0.006	0.012	0.152	0.305
J	0.220	0.245	5.59	6.22

Mechanical Data

- * Case: DO-214AB (SMC)
- * Molding compound, UL flammability classification rating 94V-0
- * Moisture sensitivity level: level 1, per J-STD-020
- * Terminal: Matte tin plated leads, solderable per JESD22-B102
Meet JESD 201 class 2 whisker test
- * Polarity: Indicated by cathode band
- * Weight: 0.21 g (approximately)

Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V

Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNIT
Maximum average forward rectified current	I _{F(AV)}	3							A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	100							A
Maximum instantaneous forward voltage (Note 1) I _F = 3 A	V _F	1.1							V
Maximum reverse current @ rated V _R T _J =25°C	I _R	5							μA
		250							
Typical reverse recovery time (Note 2)	t _{rr}	1.5							μs
Typical junction capacitance (Note 3)	C _J	60							pF
Typical thermal resistance	R _{θJL}	13							°C/W
	R _{θJA}	47							
Operating junction temperature range	T _J	- 55 to +150							°C
Storage temperature range	T _{STG}	- 55 to +150							°C

Note 1: Pulse test with PW=300μs, 1% duty cycle

Note 2: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG.1 FORWARD CURRENT DERATING CURVE

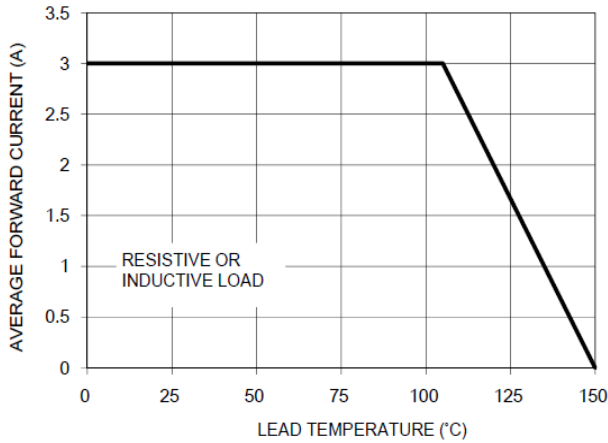


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

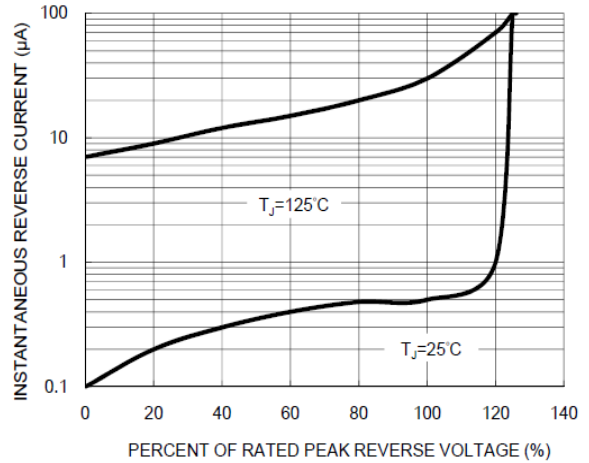


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

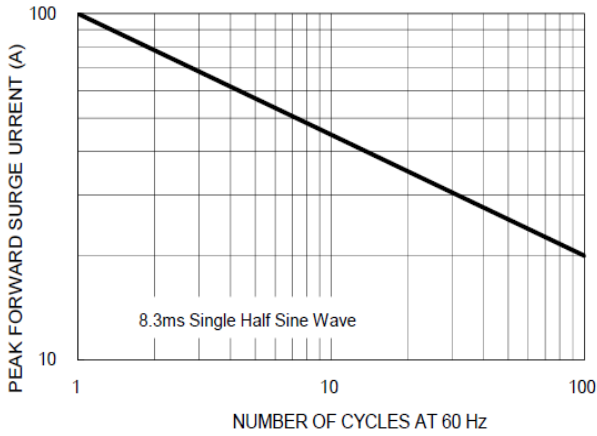


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

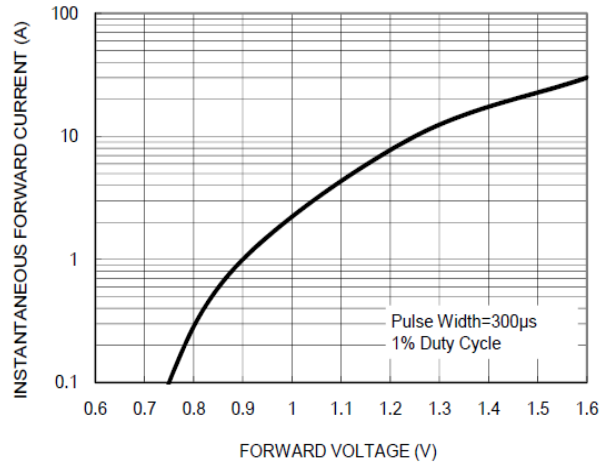


FIG. 5 TYPICAL JUNCTION CAPACITANCE

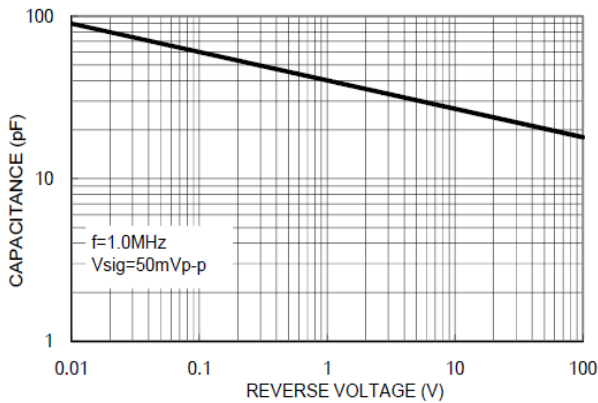
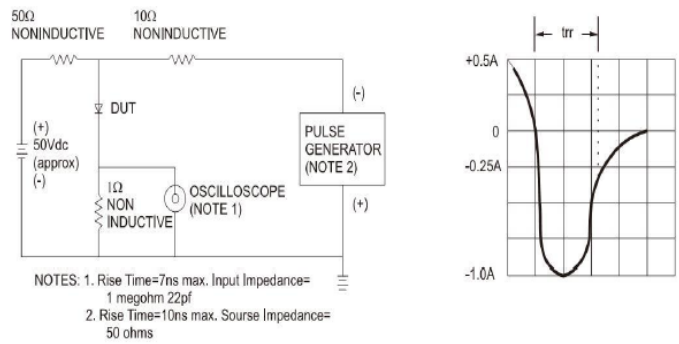


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





S3A THRU S3M

3A, 50V - 1000V Surface Mount Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
S3A - S3M	DO-214AB (SMC)	R30	3000pcs/Reel

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