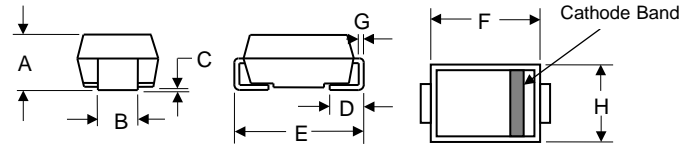


Features

- * Glass passivated junction chip
- * Ideal for automated placement
- * Fast switching for high efficiency



RoHS
COMPLIANT



SMC(DO-214AB)				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.079	0.103	2.06	2.62
B	0.114	0.126	2.90	3.20
C	---	0.008	---	0.203
D	0.030	0.060	0.76	1.52
E	0.305	0.320	7.75	8.13
F	0.260	0.280	6.60	7.11
G	0.006	0.012	0.152	0.305
H	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	FS3A	FS3B	FS3D	FS3G	FS3J	FS3K	FS3M	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 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	1.3							V
Maximum reverse current @ rated V _R T _J =25°C T _J =125°C	I _R	5 100							μA
Maximum reverse recovery time (Note 2)	t _{rr}	150			250		500		ns
Typical thermal resistance	R _{θJL} R _{θJA}	15 50							°C/W
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

Ratings and Characteristic Curves

FIG.1 FORWARD CURRENT DERATING CURVE

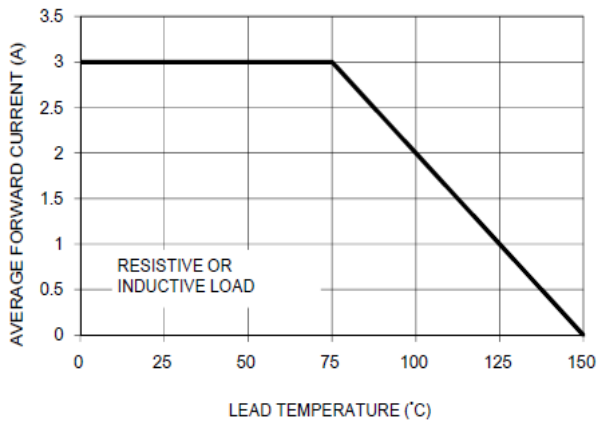


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

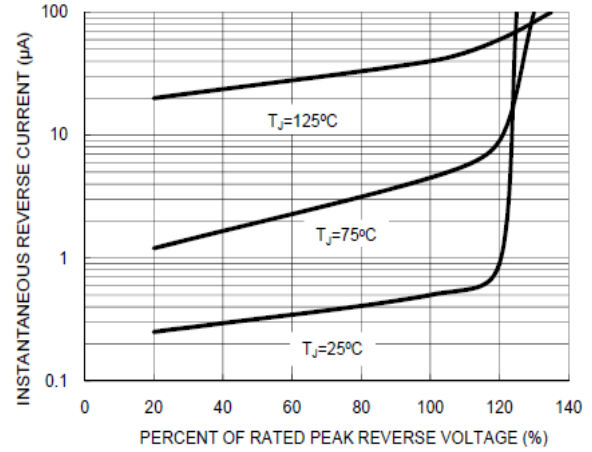


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

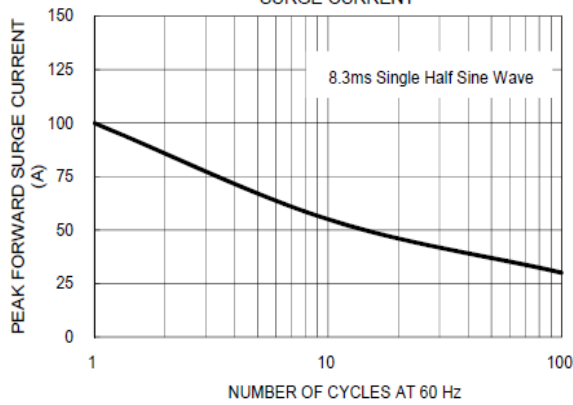


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

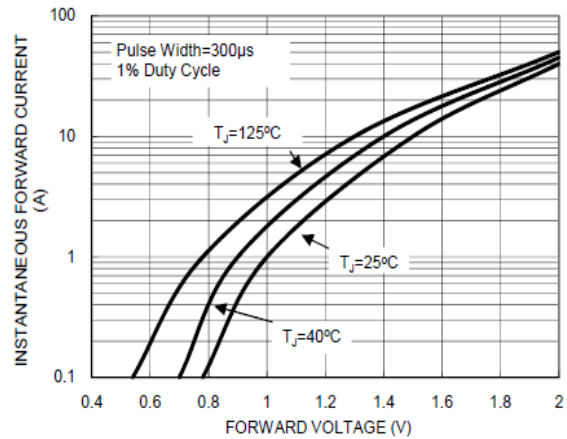


FIG. 5 TYPICAL JUNCTION CAPACITANCE

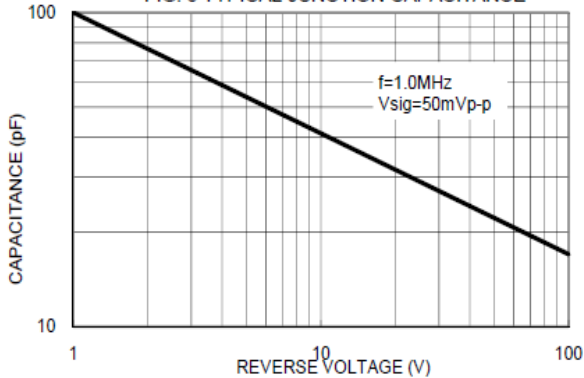
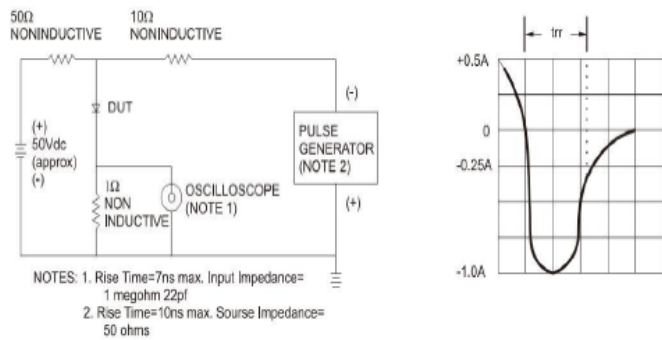


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





FS3A THRU FS3M

Surface Mount Fast Recovery Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
FS3A THRU FS3M	SMC(DO-214AB)	R30	3000pcs/Reel

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