

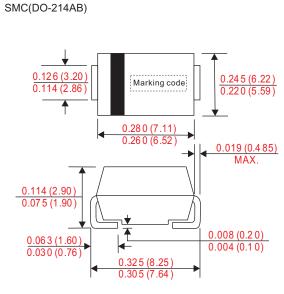
FS3A THRU FS3M

3A Surface Mount Fast Rectifiers

Features

- Low profile surface mounted application in order to optimize board space.
- High current capability.
- Fast switching for high efficiency.
- High surge current capability.
- Glass passivated chip junction.
- Suffix "G" indicates Halogen free parts, ex. FS3AG
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

Outline



Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-214AB / SMC
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : 0.007 ounce, 0.226 gram

Dimensions in inches and (millimeters)

Maximum ratings and electrical characteristics

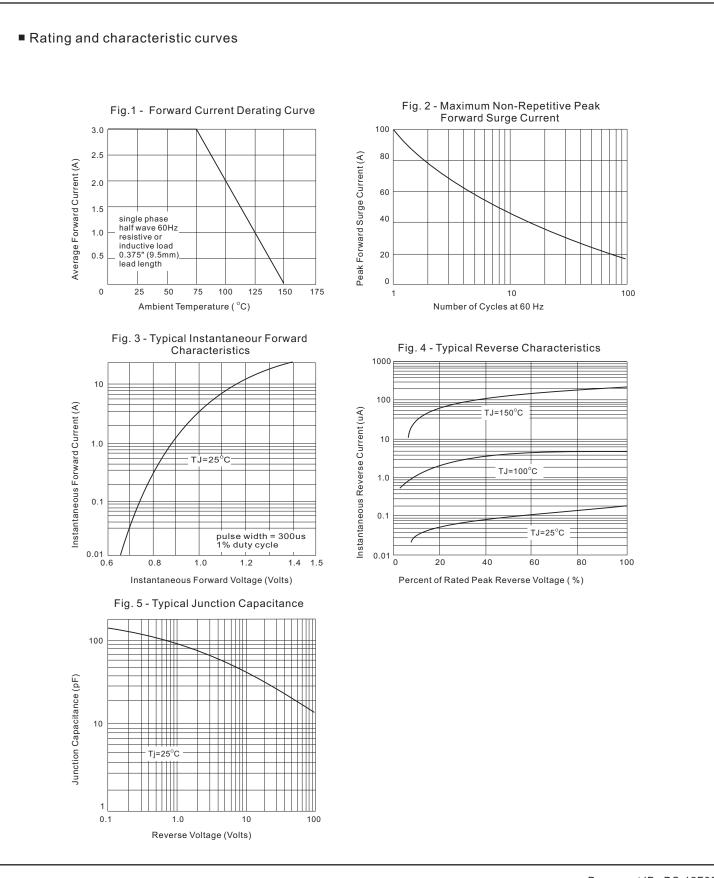
Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	0.375"(9.5mm) lead length at $T_A = 75^{\circ}C$	I _o			3.0	А
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			100	А
D	$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$				5.0	
Reverse current	$V_{R} = V_{RRM} T_{A} = 125^{\circ}C$	I _R			100 uA	
Thermal resistance	Junction to ambient	R _{eja}		20		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C		60		pF
Storage temperature		T _{stg}	-55		+150	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	$\begin{array}{c} \text{Max. DC} \\ \text{blocking voltage} \\ V_{\text{R}}\left(V \right) \end{array}$	Max. forward voltage @3A, $T_A = 25^{\circ}C$ $V_F (V)$	Max. reverse recovery time(1) T _{rr} (ns)	Operating temperature T _J (°C)	
FS3A	FS3A	50	35	50			-55~+150	
FS3B	FS3B	100	70	100		150		
FS3D	FS3D	200	140	200		150		
FS3G	FS3G	400	280	400	1.30			
FS3J	FS3J	600	420	600		250		
FS3K	FS3K	800	560	800		500		
FS3M	FS3M	1000	700	1000		500		
Note : 1. I _F = 0.5A,	I _R = 1.0A, I _{RR} = 0.25A							

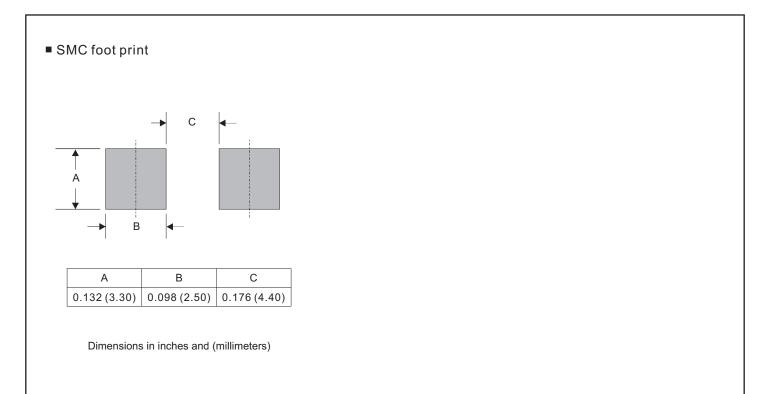


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