

## **FS2A THRU FS2M**

## SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -2.0 Ampere

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DO-214AC (HSMA) (High Profile)		FEATURES								
		<ul> <li>The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>For surface mounted applications</li> <li>Low reverse leakage</li> <li>Built-in strain relief, ideal for automated placement</li> <li>High forward surge current capability</li> <li>High temperature soldering guaranteed: 250°C/10 seconds at terminals</li> <li>Glass passivated chip junction</li> </ul>								
	MECHANICAL DATA									
DIMENSIONS           INCHES         MM         NOTE           A         078         116         108         295           B         .007         089         1.70         225           C         .002         .008         .05         .20           D          .51             E         .036              F               H               H               J										
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS										
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.										
MDD Catalog Number	SYMBOLS	FS2A	FS2B	FS2D	FS2G	FS2J	FS2K	FS2M	UNITS	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS	
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS	
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	VOLTS	
Maximum average forward rectified current at TL=90℃	l(AV)	2.0							Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	50.0							Amps	
Maximum instantaneous forward voltage at 2.0A	Vf	1.3 Volts								
Maximum DC reverse current Ta=25°C		5.0 μA								
at rated DC blocking voltage Ta=100℃	IR	50.0 <sup>µ</sup>						μ		
Maximum reverse recovery time (NOTE 1)	trr	150 250 500 ns						ns		
Typical junction capacitance (NOTE 2)	CJ	50.0						pF		
Typical thermal resistance (NOTE 3)	Reja	15.0 °C/W								
Operating junction and storage temperature range	TJ,TSTG			-5	0 to +1	50			°C	

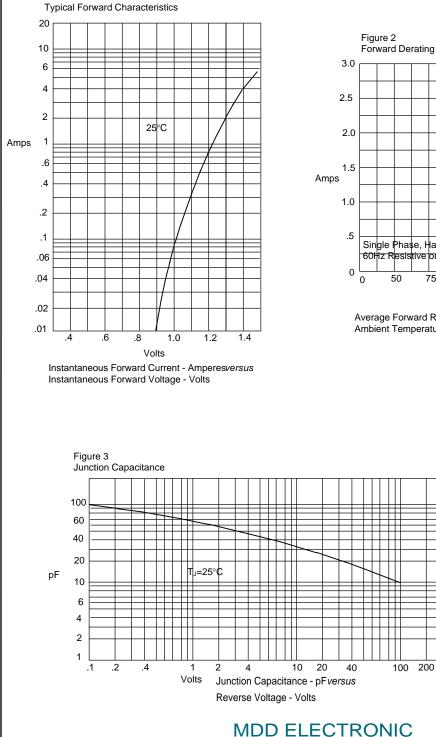
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

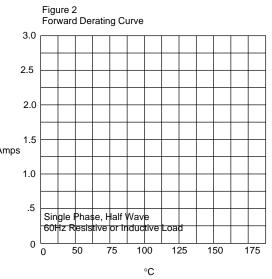
3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

## MDD ELECTRONIC

## **RATINGS AND CHARACTERISTIC CURVES FS2A THRU FS2M**

Figure 1





Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

400

1000

