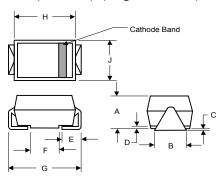


FS2A THRU FS2M

SURFACE MOUNT FAST RECOVERY RECTIFIER

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

DO-214AC (HSMA) (High Profile)



DIMENSIONS													
	INCHES		MM										
DIM	MIN	MAX	MIN	MAX	NOTE								
Α	.078	.116	1.98	2.95									
В	.067	.089	1.70	2.25									
С	.002	.008	.05	.20									
D		.02		.51									
E	.035	.055	.89	1.40									
F	.065	.096	1.65	2.45									
G	.205	.224	5.21	5.69									
Н	.160	.180	4.06	4.57									
	100	112	2.57	2.04									

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body over passivated chip

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position : Any Weight :0.002 ounce, 0.07 grams

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		FS2A	FS2B	FS2D	FS2G	FS2J	FS2K	FS2M	UNITS
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=90℃		2.0					Amp		
Peak forward surge current									
8.3ms single half sine-wave superimposed on		50.0					Amps		
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 2.0A		1.3					Volts		
Maximum DC reverse current Ta=25°C		5.0						μΑ	
at rated DC blocking voltage Ta=100℃	lR	50.0						μ/ (
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	50.0					pF		
Typical thermal resistance (NOTE 3)		15.0					°C/W		
Operating junction and storage temperature range		-50 to +150					°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

RATINGS AND CHARACTERISTIC CURVES FS2A THRU FS2M

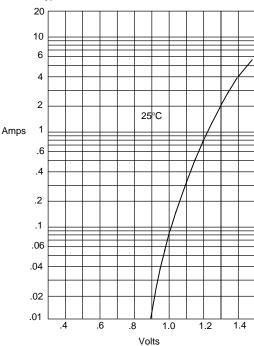
Figure 2

.5

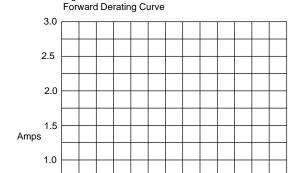
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Figure 1

Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Single Phase, Half Wave 60Hz Resistive or Inductive Load

75

50

°C

Average Forward Rectified Current - Amperes/ersus

Ambient Temperature - °C

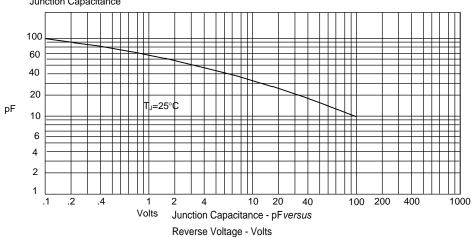
100

125

150

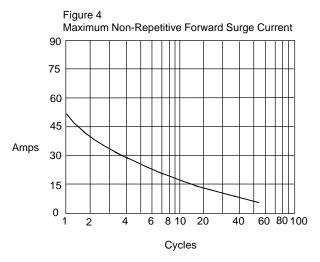
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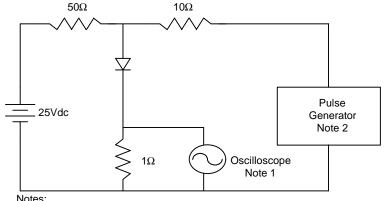
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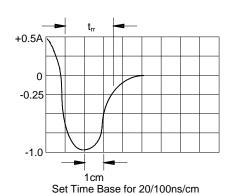
RATINGS AND CHARACTERISTIC CURVES FS2A THRU FS2M



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 5 Reverse Recovery Time Characteristic And Test Circuit Diagram





Notes:

1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive