

#### Features

- Deally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability

Classication Rating 94V-0

### **Mechanical Data**

- Case: Molded plastic SMB
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity:Cathode Band or Cathode Notch
- Mounting Position: Any
- Making: Type Number

## **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%

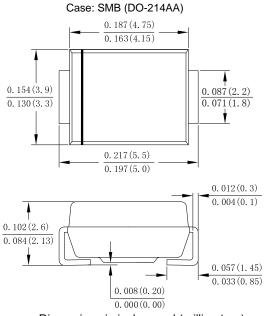
Type Number	SYMBOL	FR3A	FR3B	FR3D	FR3G	FR3J	FR3K	FR3M	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =90 °C	IF(AV)	3.0							А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	110							А
Forward Voltage @IF=3.0A	Vfm	1.3							V
Peak Reverse Current @T₄ =25 ℃	5.0								
At Rated DC Blocking Voltage @T <sub>A</sub> =125 $^\circ$ C	I <sub>R</sub> 100								uA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	²t	50.2							A <sup>2</sup> s
Maximum Reverse Recovery Time(Note 1)	Trr	150		250	5	600	ns		
Typical Junction Capacitance (Note 2)	Сл	60 25						pF	
Typical Thermal Resistance Junction to Ambient(Note 3)	R0 JA	95						℃/W	
Operating Temperature Range	ТJ	-55 to+150							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

Note:

1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. 8.0 MM² (.013 mm Thick) Land Areas.



Dimensions in inches and (millimeters)



#### FIG.2TYPICAL FORWARD CHARACTERISTICS

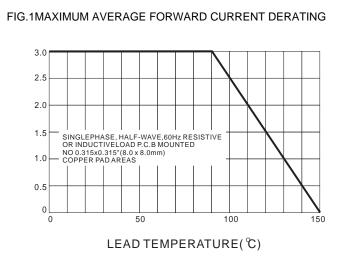


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

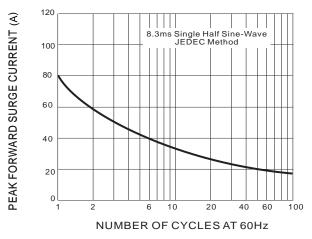
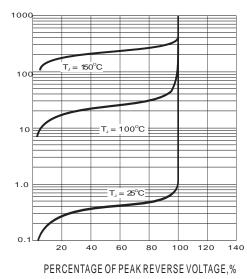
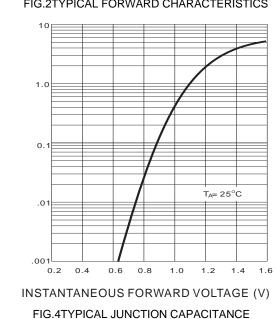


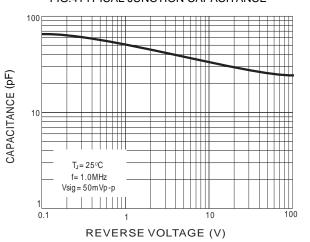
FIG.5TYPICAL REVERSE CHRACTERISTICS



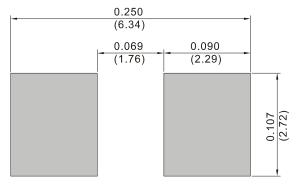




INSTANTANEOUS FORWARD CURRENT (A)



#### FIG.6 MOUNTING PAD LAYOUT



AVERAGE FORWARD RECTIFIED CURRENT (A)



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