## DFR1A THRU DFR1M

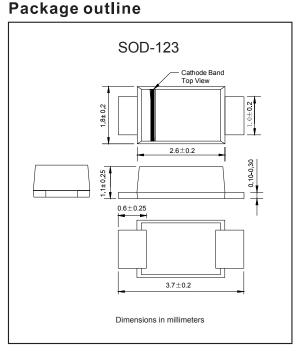
### 1.0A Surface Mount Fast Recovery Rectifiers-50-1000V

#### Features

- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Compliant to RoHS Directive 2011/65/EU
- Compliant to Halogen-free

#### **Mechanical data**

- Case : JEDEC SOD-123 molded plastic body over passivated chip
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight :0.0007 ounce, 0.02 grams



#### Maximum ratings and Electrical Characteristics (AT T<sub>A</sub>=25°C unless otherwise noted)

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PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I <sub>o</sub>			1.0	А
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I <sub>FSM</sub>			25	А
Reverse current	$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$				5.0	μA
	$V_{R} = V_{RRM} T_{A} = 100^{\circ}C$	R			50	
Thermal resistance	Junction to ambient NOTE 1	$R_{_{\theta JA}}$		50		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C		15		рF
Storage temperature		Т <sub>stg</sub>	-65		+150	°C

SYMBOLS	V <sub>RRM</sub> *1 (V)	V <sub>RMS</sub> *2 (V)	V <sup>*3</sup> (V)	V <sub>Ĕ</sub> *4 (V)	t" <sup>*5</sup> (ns)	Operating temperature T <sub>J</sub> , (°C)
DFR1A	50	35	50			
DFR1B	100	70	100		150	
DFR1D	200	140	200		150	
DFR1G	400	280	400	1.30		-55 to +150
DFR1J	600	420	600		250	
DFR1K	800	560	800		500	
DFR1M	1000	700	1000		500	

- \*1 Repetitive peak reverse voltage
- \*2 RMS voltage
- \*3 Continuous reverse voltage
- \*4 Maximum forward voltage@l<sub>F</sub>=1.0A
- \*5 Maximum Reverse recovery time, note 2

Note: 1.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

2. Reverse recovery time test condition, IF=0.5A, IR=1.0A, IRR=0.25A



 Document ID
 Issued Date
 Revised Date
 Revision
 Page.

 FM-3020002
 2003/03/08
 2012/05/16
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# Formosa MS

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### **DFR1A THRU DFR1M**

### Rating and characteristic curves (DFR1A THRU DFR1M)

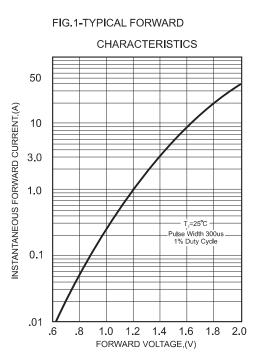
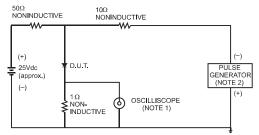
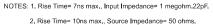


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE







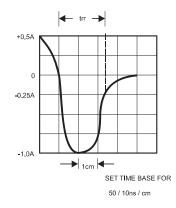
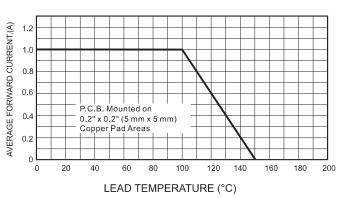
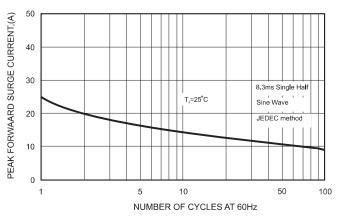
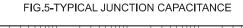


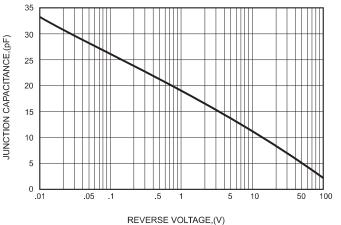
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE











Formose MS

### DFR1A THRU DFR1M

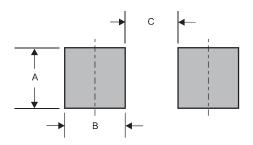
### **Pinning information**

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode	1 2	1 2

### Marking

Type number	Marking code		
DFR1A	F1		
DFR1B	F2		
DFR1D	F3		
DFR1G	F4		
DFR1J	F5		
DFR1K	F6		
DFR1M	F7		

### Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С
SOD-123	0.075 (1.90)	0.055 (1.40)	0.075 (1.90)



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